



The Association for Preservation Technology International
Association internationale pour la préservation et ses techniques



APT Technical Committee on Sustainable Preservation (TC-SP)

The APT Technical Committee on Sustainable Preservation was formed in 2004 to provide an arena for discussion, review, and information sharing. It aims to educate APT members on the relationship between historic preservation and environmental sustainability.

Co-Chair Nancy Rankin nrankin@jgwaarchitects.com

Co-Chair Cory Rouillard trembc@gmail.com

Secretary Jason Wright jasonkennethwright@gmail.com

Co-Chair Mark Brandt is stepping down at the Buffalo conference. We thank Mark for his tireless leadership!

We currently have four **Focus Groups**, which address a range of topics, interests, and purposes.

Education & Research

Climate Change

ZNCC - Zero Net Carbon Collaborative for Existing and Historic Buildings

OSCAR - the Online Sustainable Conservation Assistance Resource

***Outreach & Alliances** has been retired as its role has been completed. We thank Joe Oppermann and Michael Patrick for their efforts!*

For more information, please contact the co-chairs of the focus groups to get involved and to join in the regularly scheduled group conference calls. (See following pages.)

In addition, this past year we have:

- APT 2018 Buffalo - contributed to the 50th Anniversary programming and APT *Bulletin*
- Participated in events related to the UN High Level Political Forum on SDG 11.4
- Created a travelling poster highlighting TCSP's accomplishments and support of the Global Goals

In previous years, we have:

- Organized a special plenary on "Historic Buildings and the Race to Net-Zero Carbon" as well as a sustainable preservation networking reception for APT 2017 Ottawa
- Broadened group outreach to allied organizations, including AIA, RAIC, ICOMOS
- Contributed to public review of ASHRAE 34 Energy Guideline for Historic Buildings
- Organized "Building Science and Systems" workshop with PETC for APT 2016 San Antonio
- Guest Edited a Special Issue of the APT *Bulletin* on Climate Change and Preservation Technology (Vol. 47:1, Spring 2016)
- Contributed to the review of an NPS Preservation Brief on flooding and sea level rise
- Contributed to "Renewing Modernism" symposium with TC-MH for APT 2015 Kansas City and subsequent narrative summary "*Toward Consensus Principles for Practice*"

This year's goals and ways to get involved include:

- Engage APT with resiliency issues related to cultural heritage.
- Engage APT with UN's Sustainable Development Goals and New Urban Agenda items supporting cultural heritage.



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Education & Research Focus Group

Co-Chair Hugh Miller hcmfaia@comcast.net
Co-Chair Susan Ross susan.ross@carleton.ca
Co-Chair Amanda Webb amanda.webb@uc.edu

description

The APT TC-SP Education and Research (E&R) Focus Group was organized ca. 2008. It supports efforts of faculty and students within University-level programs in related disciplines to address the relationship between sustainable design/practices and historic preservation/heritage conservation. The group exchanges resources such as course syllabi, new references and calls for papers to conferences or publications, maintains a list of relevant thesis work, and it advises APT on key academic/research institutions and organizations with Sustainable Preservation related interests.

format

The central endeavor of the E&R Focus Group is its regular monthly phone call open to all members, with occasional guests from other organizations. The calls include both an agenda and open time for discussion of recent events and resources. In 2018, the format was slightly changed to ensure an initial roundtable of all callers, followed by a deeper discussion of content. The timing of the call is established by doodle polls for January-June and July-December to maximize availability according to participant's teaching/project schedules, and cover time zones from the UK to Pacific Coast.

Upcoming calls

- Thurs. Oct.11, 11-12 am EST
- Thurs. Nov.15, 11-12 am EST
- Thurs. Dec. 13, 11-12 am EST

Conference call Information

- Dial: 1-888-354-0094
- International Dial in: 1-206-596-0331
- Conference Code: 5938216111

goals and accomplishments

Memo to the Board: In January 2018, the Education and Research focus group submitted a memo to the Board of APT, supported by the TC-SP co-chairs, to highlight possible ways that APT as an organization could more strategically support the academic activities of education and research, including to facilitate the development and dissemination of new knowledge in sustainable preservation and technology. As a result, discussions are underway directly in the monthly calls, including with APT president Kitty Vieth, and co-chairs of the related Board committees, including Student Scholarships, Partnerships and Outreach. This remains an ongoing area of discussion and planning. The Memo has been included with the overall report of the Board for the September 2018 meeting. Support for this "high level" discussion is much helped by regular attendance of APT Executive Director Paul Kuenster in the focus group calls.

Research agenda: Through its calls, the Focus Group maintains an ongoing discussion of the 'Sustainable Preservation research agenda'. This is informed by occasional discussion of specific subject areas under development by members or invitees. e.g. In 2017-2018 this included a presentation by Tor Bostrom (Uppland University, Sweden) on the international research project on historic buildings and energy that Amanda Webb is also part of. Susan Ross presented her work on waste and heritage, with a planned symposium in October at Carleton University. Hugh Miller continued to develop a possible 'white paper' on Open System Thinking as applied to decision-making in historic preservation. Tom Visser discussed work on museum conservation in



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changing climates. Two former E&R group members focused on searise (Jenn Sparenberg and Ann Horowitz) left this group to join the new climate change focus group.

Programme and curriculum development: Exchange of information about new programmes and related curriculum developments is a regular subject of the monthly calls. For instance Jonathan Spodek described developments at Ball State to integrate across disciplines, and develop new types of degrees. In some cases these discussion may support newer faculty who are teaching a SP course for the first time (e.g. syllabus exchange). In addition, the group's co-chairs and other members are active in organizations like the National Council for Preservation Education (USA) and the National Roundtable for Heritage Education (Canada) which are key venues for fostering exchange on sustainable preservation as a subject of study and research. As part of these discussions, overlaps with other Technical Committees may occur. E.g. Concerns about SP as part of engineering preservation education was the subject of more than one call this year.

Student involvement: Through their various academic roles, E&R Focus Group members regularly referee thesis research; a list of SP related thesis and dissertation has been compiled and is periodically updated. Student perspectives are vital to this focus group and both graduate students involved in thesis work, and undergraduates in professional programmes have been encouraged to join the calls. In 2017-2018, the group has put emphasis on discussion of how to better support student involvement in APT overall (see memo to the APT Board), and has consistently reached out to students and recent graduates with related interests to join the calls at least once to discuss their research.

Call notes: Detailed notes are kept of the monthly calls, including on information shared via email between calls. These notes going back to 2012 can be made available to anyone interested in joining. The possibility of changing the format of call notes to something more interactive is being considered. This could include posting all past notes to an accessible online folder, e.g. on dropbox or other.

specific ways in which new members can get involved

Please contact Susan Ross, Hugh Miller or Amada Webb for more information or to let us know you plan to call in.



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Climate Change Focus Group

Co-Chair Joe Oppermann joppermann@jkoa.net
Co-Chair Ann Horowitz annhorowitz@me.com
Co-Chair Ilene Tyler ilene.tyler@gmail.com

description

The purpose of the Climate Change Focus Group is twofold: to consider the effects of climate change on the cultural resources of the built environment, and; to assess/promote appropriate responses.

format

- Chairs: monthly conference calls – First Mondays 1:00 – 2:00 pm
- Membership: quarterly conference calls – Second Mondays 1:00 – 2:00 pm

this past year's accomplishments

- Establish subgroups
- Identify and target information sources and kindred organizations/ make contact/ establish relationships/ begin monitoring and distilling data
- Select topics, commit speakers and develop program outlines for Miami 2019
- Develop/submit policy statement for adoption by APT Board

current goals

- Finalize program and speakers for the Miami Symposium.
- Engage additional partners to plan and implement the Miami Symposium.
- Working title: Adapting Historic Resources to the Impacts of Climate Change and Sea Level Rise
- Venue: Vizcaya

specific ways in which new members can get involved

Members are needed for virtually every activity of the four categories of the Action Plan.

Action Plan:

To pursue this mission, we have divided our efforts into four categories:

1. *THE SCIENCE*

Objectives:

Gather and Disseminate pertinent information about how Climate Change and the kinds of environmental condition resulting from Climate Change are affecting and can potentially affect the cultural resources of the built environment.

Actions:

- Gather:
 - Establish communication with entities which monitor such information: information officers of NPS, UNESCO, ICOMOS, etc. and draw in the scientific community, including the International Panel on Climate Change (IPCC), NOAA, NASA, colleges and universities at the forefront of this research, etc.



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- o Identify and interact with established research and monitoring centers *inside* the US, such as the NPS Regional Monitoring Centers.
- o Identify and interact with established research and monitoring centers *outside* the US, such as Canada, Scotland, etc.
- o Follow up with authors of commissioned reports
 - o Steven Smith: *Effects of Climate Change on Cultural Resources (2012)*
- o Identify potential speakers, workshop leaders, contributors to the *Journal*, etc.
- Disseminate:
 - o Seek/Promote articles within APT: *Journal*, sessions at APT Annual Meeting, *Communique*, etc.
 - o Seek/Promote joint articles with kindred professional organizations, such as AIA HRC and AIA COTE, RAIC, AIC, ASLA, and state and local chapters, etc.
 - o Organize/Conduct APT seminars and workshops (Miami 2019), etc.
 - o Organize/Conduct with kindred professional organizations: workshops (Miami 2019), etc.
 - o Sustainability, Environment, Climate tracts, other topics?

2. VULNERABILITY

Objectives:

Gather and Disseminate pertinent information about the collateral damage from Climate Change (e.g. Tourism, Property Values, Coastal Wetlands, etc.)

Actions:

- Gather:
 - o Peter Cox: UNESCO research on climate change effects on historic buildings
 - o Historic Scotland monitoring
 - o Stephen Smith: USC Applied Research Division
 - o Find articles on economic impacts
 - o Merging of SLR data with NR locations
- Disseminate:
 - o Seek/Promote articles within APT: *Journal*, sessions at APT Annual Meeting, *Communique*, etc.
 - o Seek/Promote joint articles with kindred professional organizations: AIA HRC, AIA COTE, RAIC, AIC, ASLA, etc.
 - o Organize/Conduct APT seminars and workshops (Miami 2019), etc.
 - o Organize/Conduct with kindred professional organizations: seminars and workshops (Miami 2019), etc.

3. MITIGATION

Objectives:

Develop/ Promote initiatives to reduce/ slow the rate of Climate Change (Mitigation of Green House Gas Emissions, etc.)

Actions:

- Develop:
 - o Policy statement (akin to New Orleans Charter) on APT's support for mitigation (slowing the rate of climate change). Also look at similar efforts that may be underway at AIC, Historic Scotland, Historic England, Green Building Council, ASHRAE, others
- Promote:



The Association for Preservation Technology International
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- o Promote work, initiatives of APT members
- o Seek/Promote articles within APT: *Journal*, sessions at APT Annual Meeting, *Communique*, etc.
- o Seek/Promote joint articles with kindred professional organizations: AIA HRC, AIA COTE, RAIC, AIC, ASLA, etc.
- o Organize/Conduct APT seminars and workshops (Miami 2019), etc.
- o Organize/Conduct with kindred professional organizations: seminars and workshops (Miami 2019), etc.

4. ADAPTATION

Objectives:

Develop/ Promote sound preservation practices to protect cultural resources at the levels of Building/Site, City/Region, National/International.

Actions:

- Develop/Promote:
 - o Prepare Policy Statement (that includes mitigation and adaptation positions) on Climate Change for adoption by APT and others.
 - o Seek/Promote articles within APT: *Journal*, sessions at APT Annual Meeting, *Communique*, etc.
 - o Seek/Promote joint articles with kindred professional organizations: AIA HRC, AIA COTE, RAIC, AIC, ASLA, etc.
 - o Organize/Conduct APT workshops, etc.
 - o Organize/Conduct with kindred professional organizations: workshops, etc.
 - o Gather adaptation solutions that have been implemented by APT members – reach out to local chapters for this info as members in the field are implementing adaptation strategies on a regular basis.
 - o Disseminate adaptation solutions through *Communique*.
 - o Develop on-line clearinghouse of adaptation strategies.



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ZNCC Focus Group

Co-Chair Lori Ferriss lori.ferriss@goodyclancy.com
Co-Chair Mark Brandt mtb@mtbarch.com
Co-Chair Nakita Reed nakita@encoresdesign.com
Co-Chair Natasha Klemek n.klemek@ed-alumni.net

description

TCSP initiated the ZNCC Zero Net Carbon Collaboration for Existing and Historic Buildings at APT Ottawa in October 2017. The founding partners besides APT include the AIA, RAIC, ICOMOS and Architecture 2030.

this past year's accomplishments

- Launch of an initial website for base info: www.zncccollaboration.org
- Secured agreement from AIA to staff the website maintenance and evolution, following on from MTBA Associates staff, who initiated the site
- Initiated discussions with several other orgs who are interested to connect with ZNCC, including NBI, CaGBC, CLF/ECN, others
- conducted a series of monthly calls
- prioritized a set of tasks to form a 2-year action plan and commenced filling leads for the tasks
- commenced compiling a database in a Google Doc shared space
- supported, along with APT and TCSP, two affiliated events of the Global Climate Action Summit, through installation of co-chair Mark Thompson Brandt on the steering committees of the Carbon Smart Building Day and the Climate Heritage Mobilization
- Brandt was asked to lead a session, on behalf of ZNCC, of each event and promoted ZNCC (and APT) in those sessions which looked at Best Practices for Energy/Carbon Rehabs of Existing Buildings and Carbon Mitigation & Cultural Heritage Preservation Policies & Practices respectively for these international audiences, September 11 and 12
- installed 2 new co-chairs to assist Brandt and Lori Ferriss: Natasha Klemek and Nakita Reed
- secured several strategic alliances with all of the above-mentioned orgs, on behalf of APT.

current goals

Prioritized set of tasks for the 2-year action plan include:

- Seek grant money
- Create library of existing research and initiatives
- Gather data on building reuse carbon from researchers and practitioners
- Develop methodologies for correlating energy retrofit efforts
- Collect strategies and technologies for reusing and upgrading existing buildings
- Work with ICOMOS to develop inputs into the mitigation related portions of the new ICOMOS Charter on Climate Change and Heritage
- Collect Data on continent-wide building stock
- Introduce topics and techniques of sustainable reuse in educational institutions

specific ways in which new members can get involved

Please contact the Co-Chairs.



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OSCAR Focus Group

Co-Chair Cory Rouillard

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Co-Chair Carly Farmer

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description

OSCAR is an open-source interactive web application for design professionals engaged in the sustainable rehabilitation of historic buildings. OSCAR's holistic building evaluation and design approach helps to maximize the health, energy efficiency, and conservation of built historic assets without compromising their heritage value. The OSCAR Focus Group is building the web app and populating it with relevant information.

URL: <http://oscar-apti.org>

format

Most recently, OSCAR coordination has happened through individual emails and calls. The OSCAR team would like to get back to the regularly scheduled calls of past years. The timing of calls is as yet TBD.

this past year's accomplishments

General:

- Carly Farmer became a co-chair of the OSCAR focus group. Carly has worked actively on OSCAR since 2014.

Website:

- Cory Rouillard and UX Designer Katrina Ambrose completed "75% Construction Documents" of the redesign of OSCAR v2.0. This work was done with the generous support of the Historic Preservation Education Foundation (HPEF) Partners in Training program.
- Web Developer Joseph Russell has been rebuilding OSCAR 2.0, for release in Buffalo. He has been implementing Kat Ambrose's redesign, with continued input from Cory Rouillard.

Content:

- Alyssa Reynolds, a grad student at Ball State University, completed a series of content sheets on lead roofing. Her advisor was Jonathan Spodek. This work was done in the Spring 2018 semester with the generous support of the Ball State Community Partners Outreach program.
- We started a photo search among the APT membership: 14 requests made, over 100 photos submitted. Requests were announced on the OSCAR site, APT facebook, and APT linkedin pages.
- A content development introductory tutorial was created for use with new volunteers.

Outreach:

- Carly Farmer is compiling an outline of OSCAR's contributions relative to the UN Sustainable Development Goals (SDGs).

Funding:

- OSCAR has been awarded a third grant by the HPEF Partners in Training program. This grant is being used to work with Web Developer Joseph Russell to rebuild the OSCAR site. We are very grateful for their continued support!
- Carly Farmer submitted an application for an Upjohn Research Grant from the AIA. This grant, if awarded, would be used for content development workshops and student researchers.

current goals



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- additional revisions and functionality for OSCAR v2.0 after release at the 2018 Conference in Buffalo
- conduct initial brainstorming workshops
- convert the workshop results into new content for OSCAR
- work with other TCs (such as TC-MH) to start getting their content online

specific ways in which new members can get involved

- help organize brainstorming workshops
- compile known research into “content” pages for OSCAR. Select a topic of choice within the OSCAR framework. This may include a material, a sustainability improvement strategy, or a case study.
- be a university liaison, work with graduate students to develop content
- serve as a peer reviewer for the content that has been written to date
- search for relevant funding partners
- other suggestions: <http://oscar-apti.org/oscar-is-ready-to-learn/>

Current as of: September 2018