

APT San Juan 2007

*Old World Technologies
Adapting in the New World*

November 3-7, 2007

**Caribe Hilton
San Juan, Puerto Rico**



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

We're Glad You're Here!

As a conference attendee you are experiencing APT's premier annual event for education and networking. We hope you'll plan your schedule so you can participate annually:

October 13–17, 2008

—**Montréal, Québec, Canada**

—**celebrating APT's 40th Anniversary!**

November 2–7, 2009

—**Los Angeles**

About APT

The Association for Preservation Technology International is the leading cross-disciplinary organization dedicated to promoting the best technology for conserving historic structures and their settings. Founded in 1968 as a joint venture among Canadian and United States preservationists, APT now has members in more than 20 countries.

Join APT

If you're not an APT member, you're missing numerous benefits, including a discounted conference registration fee. Membership in APT demonstrates your commitment to the conservation field, and we would be very pleased to have you join our organization. As an APT member you will have the benefit of

- a subscription to the APT Bulletin, the peer-reviewed journal that is the ultimate source for cutting-edge preservation techniques
- a subscription to the Communiqué, our quarterly electronic newsletter
- discounted rates to attend APT annual conferences
- discounted rates to attend specialized training and education opportunities
- an opportunity to join an APT Chapter, which offers local networking and information
- an international network of leading preservationists

- a listing in and access to the APT online membership directory
- online access to past issues of the Bulletin via JSTOR, a digital archive that enables APT members to search, browse, download, and print full-text PDF versions of articles

APT members include preservationists, architects, engineers, conservators, consultants, contractors, craftspersons, curators, developers, educators, historians, landscape architects, students, technicians, and other persons directly involved in the application of methods and materials to maintain, conserve, and protect historic structures and sites for future use and appreciation.

Membership is available for individuals, students, and companies. Membership information is available at APT's booth in the exhibit area or online at www.apti.org. The APT Conference non-member rate includes a one-year membership in APT.

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Enjoying Puerto Rico On Your Own

You, your family and/or your guests can plan day tours during or after the APT conference to discover the many unique aspects that the Island offers. This is a wonderful way for your family and friends of all ages to explore the city and Island while you are attending sessions.

To make your plans contact the Caribe Hilton's destination management company, Travel Services, located in the hotel lobby. The Tour Desk is open 8:00 a.m.–9:00 p.m. daily.

Partial Tour List:

- El Yunque Rainforest
- City Tour with Shopping Time
- Combination City and Casa Bacardi Rum Tour
- Horseback Riding in the Foothills of the Rainforest
- Trans-Island to Ponce, Pearl of the South
- All-Day Visit to the Camuy Caverns and Ionospheric Observatory
- Catamaran Sail
- Night Kayaking on a Bioluminescent Bay
- Coastal Kayaking
- Coastal Bike and Beach
- Deep Sea Fishing
- All Day Trip to Ponce and Serrallés Castle

The APT San Juan 2007 Local Conference Committee Co-Chairs

Welcome you to San Juan!

Kent Diebolt, FAPT
Vertical Access,
Ithaca, NY

Tobin Tracey, AIA
National Park Service,
Washington, DC

Agamemnon Gus Pantel, Ph.D.
Pantel, del Cueto & Associates,
San Juan, PR

Beatriz del Cueto, FAIA
Pantel, del Cueto & Associates,
San Juan, PR

Agenda at a Glance

*All events are at the Caribe Hilton unless otherwise noted

Friday, November 2

3:00–6:00 p.m.

APT Registration Desk Open

Saturday, November 3

7:00 a.m.–6:00 p.m.

APT Registration Desk Open

7:00–10:00 a.m.

Continental Breakfast

8:00 a.m.–1:30 p.m.

Old San Juan City Tour and VIP Tour of La Fortaleza Governor's Mansion

8:00–11:00 a.m.

Tour of the Historic University of Puerto Rico Campus and Archives

8:30 a.m.–3:00 p.m.

Workshops, Day 1

- Traditional Lime and Brick-dust Mortars for Restoration at El Morro grounds
- Preservation of Wood in Historic Structures at Henry Klumb House in Río Piedras
- Architectural Conservation, a hands-on workshop, Old San Juan

6:00–8:00 p.m.

Workshop Reception at The Ramón Power y Giralt House

Evening Dinner on own

11:00 p.m.

Last shuttle bus departs from Old San Juan

Sunday, November 4

7:00 a.m.–6:00 p.m.

APT Registration Desk Open

7:00–10:00 a.m.

Continental Breakfast

8:00 a.m.–4:00 p.m.

APT Board of Directors Meeting
Anytime Old San Juan Forts Tour

8:30 a.m.–3:00 p.m.

Workshops, Day 2

10:00 a.m.–4:00 p.m.

Golf Tournament

6:00–8:00 p.m.

Conference Keynote Speaker, Opening Reception and Student Scholarship Auction at Fort San Cristóbal

Evening Dinner on own

Late night

New Member Gathering

11:00 p.m.

Last shuttle bus departs from Old San Juan

Monday, November 5

7:00 a.m.–6:00 p.m.

APT Registration Desk Open

7:00–10:00 a.m.

Continental Breakfast

8:00–10:00 a.m.

Paper Sessions

10:00 a.m.–4:00 p.m.

Exhibits, Bookstore and Demos

Agenda at a Glance

11:00–11:45 a.m.

APT Annual General Meeting

Noon–12:45 p.m.

Lunch with Exhibitors

1:00–3:00 p.m.

Paper Sessions

3:15–5:00 p.m.

Board Committee Meetings and Free Time

4:00–5:30 p.m.

Student Gathering

6:00–7:00 p.m.

College of Fellows Keynote Lecture at
Iglesia San José

7:00–8:00 p.m.

College of Fellows Reception at Convento
de los Dominicos/Galería Nacional

8:00 p.m.

Chapters Mixer at Hotel El Convento

Evening Dinner on own

11:00 p.m.

Last shuttle bus departs from Old San Juan

Tuesday, November 6

7:00 a.m.–6:00 p.m.

APT Registration Desk Open

7:00–10:00 a.m.

Continental Breakfast

7:15–8:30 a.m.

APT Technical Committee Meetings and
Free Time

8:00 a.m.–4:00 p.m.

Exhibits, Bookstore and Demos

8:00–8:45 a.m.

Chapters Breakfast

9:00–11:00 a.m.

Paper Sessions

11:15 a.m.–12:45 p.m.

Lunch and APT's Setting the Agenda
Planning Meeting

1:00–3:00 p.m.

Paper Sessions

3:15–4:45 p.m.

APT Board of Directors Meeting

6:00–11:00 p.m.

APT Social and Awards Ceremony Banquet
at Museo de Arte de Puerto Rico

11:00 p.m.

Last shuttle bus departs from Old San Juan

Wednesday, November 7

7:00–9:00 a.m.

APT Registration Desk Open

7:00–9:00 a.m.

Continental Breakfast

8:00 a.m.–4:30 p.m.

Field Sessions

- Architectural Tour of the Historic Center of Ponce
- Hacienda Buena Vista Coffee Plantation Tour, outskirts of Ponce
- La Cabeza San Juan Nature Reserve and Lighthouse Tour, Fajardo

8:30 a.m.–Noon

- The Museo de Arte de Puerto Rico

Conference Information

Language

English-Spanish and Spanish-English simultaneous translation will be provided. All registered attendees will have access to portable translation headphone equipment.

Shuttle Bus

Shuttle buses will depart from the entrance to the Caribe Hilton prior to each off-site event. They will then return from the off-site location to the Caribe Hilton immediately following the event.

If you wish to stay in Old San Juan after the evening events, a shuttle bus will transport attendees from Old San Juan to the Caribe Hilton. The bus will leave at 9:00, 10:00, and 11:00 p.m. each evening (Saturday, Sunday, Monday and Tuesday).

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Meet the bus at Plaza Colón, at the corner of San Francisco and O'Donnell streets on the east side of Old San Juan. (See page 19 for a map.) If you miss the bus, call Major Taxi Cabs at 787/723-2460.

AIA Credits

Workshops, paper sessions, field sessions and keynote addresses all qualify for AIA continuing education credits. CEU forms are available at the APT Registration Desk. Individuals are responsible for completing the form and returning it to APT. APT forwards the forms to AIA and AIA posts credits online where you can access them about five weeks after the conference.

Individuals who need CEUs for state or provincial licensure requirements may request a certificate of attendance from the APT Registration Desk.

Name Badges

Please return your name badge to the APT Registration Desk before you leave. Let's keep all that plastic out of the garbage.

Special Ways to Help APT APT Student Scholarship Auction

As a part of APT's outreach mission, the conference underwrites the cost of scholarships for selected students to participate in the conference.

Approximately 16 students annually receive a full registration to the conference (or a workshop, if they prefer) and a ticket to each of the evening events, as well as a travel and meals stipend. The Annual Live and Silent Auction helps to underwrite the cost per student.

This year's auction will be conducted at the APT Opening Reception Sunday night at Fort San Cristobal. An auction catalog will be distributed when you arrive at the reception. An Opening Reception ticket is included with your name badge if you requested one in advance.

APT Endowment Fund Raffle

The APT Endowment Fund, the fundraising arm of the association, is sponsoring a raffle throughout the conference. Raffle tickets are available from any Endowment Fund committee member and at the APT exhibit booth.

Raffle tickets are \$10 each; three for \$25 or six for \$50. Winners will be announced at the APT Social and Awards Banquet Friday night at the Museo de Arte de Puerto Rico. Winners need not be present to claim their prizes. Every ticket taker is eligible to win and proceeds will support the APT Endowment Fund.

Conference Schedule

Friday-Saturday

Friday, November 2

9:00 a.m.–5:00 p.m.

The Preservation Technology & Training Board of the National Center for Preservation Technology and Training NCPTT Semiannual Board Meeting, Day 1
Room: Conference 10

3:00–6:00 p.m.

APT Registration Desk Open
Hotel Lobby

Saturday, November 3

7:00 a.m.–6:00 p.m.

APT Registration Desk Open
Hotel Lobby

7:00–10:00 a.m.

Continental Breakfast
Hotel Lobby

8:00 a.m.–1:30 p.m.

Field Session: Old San Juan and La Fortaleza VIP Tour of La Fortaleza Governor's Mansion
7:45 a.m.—Meet the bus at the Caribe Hilton's main entrance.

A ticket is required and was included in your registrant envelope if you ordered one in advance. This event is sold out.

You will be walking up and down hilly narrow streets within Old San Juan and should be in good physical condition for walking. Dress code: No shorts or sleeveless tops. Lunch is on your own.

Leaders:

The Old San Juan Walking Tour will be led by Jorge Rigau, FAIA, scholar and author, founder and former dean of Polytechnic University's School of Architecture. La

Fortaleza VIP Tour will be led by Ms. Zulma Zavala, Assistant to the First Lady.

8:00–11:00 a.m.

Field Session: Historic University of Puerto Rico Campus and Archives
7:45 a.m.—Meet the bus at the Caribe Hilton's main entrance.

A ticket is required for this event. This is a walking tour and you should be in good physical condition for walking. Lunch is on your own.

Leaders:

Prof. Enrique Vivoni-Farage, PhD., distinguished scholar and Director of the Architectural and Construction Archives of the University of Puerto Rico and Prof. Nadja Nenadich, preservationist.

7:45 a.m.–3:30 p.m.

Traditional Lime and Brick-dust Mortars for Restoration, Day 1
7:45 a.m.—Meet the bus at the Caribe Hilton's main entrance.

Participants will explore the use of lime-based mortars and stuccos employing the addition of brick dust and other traditional pozzolans. Each day will begin with a lecture at the Auditorium of La Escuela de Artes Plásticas and conclude at the San Juan National Historic Site's Lime Laboratory and Workshop. Lunch is included.

Presenters:

Frank G. Matero—Conservator, Professor of Architecture and Chair of the Graduate Program in Historic Preservation, University of Pennsylvania
Beatriz del Cueto, FAIA—Conservation Architect and Director of the Architectural Conservation Laboratory, Polytechnic

Conference Schedule

Saturday

University of Puerto Rico
Edwin Colón—Facilities Manager and
Master Mason, San Juan National Historic
Site, NPS, San Juan, Puerto Rico
Luiga Binda—Architect, Professor of
Engineering, Milan Polytechnic University,
Italy

7:30 a.m.–4:00 p.m.

Preservation of Wood in Historic
Structures—Architecture, Engineering and
Craft, Day 1

7:30–8:30 a.m.—Optional lecture at hotel
Room: Conference 8-9

8:30 a.m.—Meet the bus at the Caribe
Hilton's main entrance.

3:00–4:00 p.m.—Optional lecture at hotel
Room: Conference 8-9

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This workshop will go through the
process of addressing preservation issues
for wood in historic structures. While
working at the Henry Klumb House in San
Juan, participants will explore the types
of questions and issues that different
professionals have with preserving wood
structures. Lunch is included.

Presenters:

Ron Anthony, Wood Scientist, Anthony &
Associates, Inc., Fort Collins, Colorado
Annabelle Radcliffe-Trenner, Principal,
Historic Building Architects, LLC, Trenton,
New Jersey

José (Pepe) Izquierdo-Encarnación, MCE,
FACI, PE, Principal, PORTICUS—Ingeniería
Rio Piedras, Puerto Rico

Francisco Gutierrez, Architect and
Woodworker, Palters, San Juan, Puerto
Rico

7:45 a.m.–3:30 p.m.

Architectural Conservation Workshop, Day 1

7:45 a.m.—Meet the bus at the Caribe
Hilton's main entrance.

Participants will work alongside
conservators in carrying out conservation
treatments on historic plaques in Old San
Juan and then discuss and write treatment
reports.

Presenters, all members of the Association
of American Institute for Conservation of
Historic and Artistic Works (AIC):

Judy Jacob, National Park Service

Scott Krehlick, Kreilick Conservation, LLC

Andrej Dajnowski, Conservation of

Sculpture and Objects Studio

Molly Lambert, Architectural Conservation,
Inc.

Catherine Dewey, National Park Service

David Wessel, FAPT, Architectural
Resources Group

9:00 a.m.–Noon

The Preservation Technology & Training

Board of the National Center for

Preservation Technology and Training

NCPTT Semiannual Board Meeting, Day 2

Room: Conference 10

5:15–5:45 p.m.

Buses depart from the Caribe Hilton's main
entrance for the Workshop Reception.

6:00–8:00 p.m.

Workshop Reception

Casa Ramón Power y Giralt, Old San Juan

A ticket is required and was included in
your registrant envelope if you ordered one
in advance. This event is sold out.

The Ramón Power y Giralt House is of
great historical importance to the Island.
In 1989, the Conservation Trust of Puerto
Rico acquired the House and restored it in
accordance to the norms of architectural
harmony and original planning of Old San

Conference Schedule

Saturday-Sunday

Juan. The house is now the headquarters of the Trust's executive offices and home of the first interactive environmental exhibit in Puerto Rico.

Following the reception, buses will depart from the Ramón Power y Giralt House for the Hilton.

6:15 p.m.

Buses depart from the Caribe Hilton for Old San Juan

If you're not attending the Workshop Reception, you can meet the bus at the entrance to the Caribe Hilton for a ride into Old San Juan and an evening on the town.

Late Night Shuttle

Buses depart at 9:00, 10:00, and 11:00 p.m. from Old San Juan for the Caribe Hilton.

Meet the bus at Plaza Colón, at the corner of San Francisco and O'Donnell streets on the east side of Old San Juan. If you miss the bus, you can call Major Taxi Cabs at 787/723-2460.

Sunday, November 4

7:00 a.m.–6:00 p.m.

APT Registration Desk Open
Hotel Lobby

7:00–10:00 a.m.

Continental Breakfast
Hotel Lobby

7:45 a.m.–3:30 p.m.

Traditional Lime and Brick-dust Mortars for Restoration, Day 2
7:45 a.m.—Meet the bus at the Caribe Hilton's main entrance. Lunch is included.

8:30 a.m.–4:00 p.m.

Preservation of Wood in Historic Structures—Architecture, Engineering and Craft, Day 2

8:15 a.m.—Meet the bus at the Caribe Hilton's main entrance. Lunch is included.

3:00–4:00 p.m.

Optional lecture at hotel
Room: Conference 8–9

7:45 a.m.–3:30 p.m.

Architectural Conservation Workshop, Day 2

7:45 a.m.—Meet the bus at the Caribe Hilton's main entrance. Lunch is included.

8:30 a.m.

Bus departs for Golf Tournament
A ticket is required for the bus and may be purchased at the APT Registration Desk while supplies last.

8:00 a.m.—Meet the bus at the Caribe Hilton's main entrance. Lunch is included.

10:00 a.m.–4:00 p.m.

Golf Tournament
Plantation Club Dorado Beach—Pineapple Course in Dorado, Puerto Rico

A ticket is required for the tournament and may be purchased at the APT Registration Desk while supplies last.

At Your Leisure

Old San Juan Forts Tour

This self-guided tour, which can be taken any day, takes you through the forts of Old San Juan. Pick up your informational packet that includes transportation options, directions, and guides to the forts.

8:00 a.m.–4:00 p.m.

APT Board of Directors Meeting and Lunch
By Invitation
Tropical Rooms

Conference Schedule

Sunday-Monday

4:30 p.m.

APT Student Scholars Meeting
APT Registration Desk, Hotel Lobby

Student scholars will meet with the APT Student Scholarships Committee Co-Chairs.

5:00–5:45 p.m.

Buses depart for Keynote Speaker and Opening Reception
Caribe Hilton main entrance

6:00–8:00 p.m.

Keynote Speaker, Opening Reception and Student Scholarship Auction
Castillo San Cristóbal (Fort San Cristóbal)

A ticket is required for this complimentary event and may be acquired at the APT Registration Desk while supplies last.

Architect Jorge Rigau, FAIA, will present, **“The Problems of Preserving Paradise: Architectural Conservation in the Hispanic Caribbean,”** a look at how a process has evolved to protect the fortifications, towns and dwellings of the Antilles despite the detrimental impacts of both nature and mankind.

Following the keynote presentation you can explore the fort and enjoy hors d’œuvres and complimentary drinks. Dinner is on your own.

The **Second Annual APT Student Scholarship Auction** will take place throughout the evening. This live and silent auction raises funds for this year’s Student Scholars to attend the conference and present their winning posters. See page 20 for a list of students and their poster titles. Bid early and often!

Following the reception, buses will depart from the fort for the Caribe Hilton.

10:00–11:00 p.m.

New Member Gathering: Welcome to APT!
Caribe Hilton’s Oasis Garden

New APT members are encouraged to meet members of the APT Board of Directors to be welcomed into the association at this informal, Dutch-treat event. All attendees who registered for the conference at the non-member rate are considered new members since the registration fee includes a one-year APT membership.

Late Night Shuttle

Buses depart at 9:00, 10:00, and 11:00 p.m. from Old San Juan for the Caribe Hilton.

Meet the bus at Plaza Colón, at the corner of San Francisco and O’Donnell streets on the east side of Old San Juan. If you miss the bus, you can call Major Taxi Cabs at 787/723-2460.

Monday, November 5

7:00 a.m.–6:00 p.m.

APT Registration Desk Open
Hotel Lobby

7:00–10:00 a.m.

Continental Breakfast
San Cristóbal Lobby

8:00–10:00 a.m.

Paper Sessions



Effects of Climate in Warm Weather Coastal Locations—[CS01]

Room: San Cristóbal A

Session Chair: Carl Elefante

Conference Schedule

Monday

Nowhere to Run To

Pilarin Ferrer Viscasillas, AIA, Guaynabo, PR, USA

Improving Hurricane Survivability for Heritage Structures

Patrick Sparks, P.E., Sparks Engineering, Inc., Round Rock, TX, USA

Adaptations of Traditional Bermudian Construction Using Modern Materials

Melanie Kasper, P.E., S. Harris & Co., Philadelphia, PA, USA



Mortar and Masonry Construction—[CS02]

Room: San Cristóbal CD
Session Chair: Thomas Solon

Adapting Existing Technologies to Understand Old World Traditions

Dorothy Krotzer, Building Conservation Associates, Inc., Philadelphia, PA, USA and John J. Walsh, Testwell Laboratories, Inc., Ossining, NY, USA

Science and Crafts—How Traditional Methods of Lime Mortar Making and Curing Control their Properties—Role of Water

Dagmar Michoinova, P.E., National Institute for the Care of Historical Monuments, Czech Republic

“Match the Mortar”Is the Mason Contractor Qualified?

Mario Machnicki, Marion Inc., Chicago, IL, USA



Brick—[CS03]

Room: San Cristóbal EFG
Session Chair: David Wessel, FAPT

Misunderstanding Masonry Construction

John Nakrosis, Jr., AIA, ASCE, John D Nakrosis Jr Building Design, Indiana, PA, USA

Tear on the Dotted Line: Hidden Weakness in Complex Brick Walls

Donald Friedman, P.E., Old Structures Engineering, PC, New York, NY, USA

Mortar Injection: European Techniques for an American Construction

Mary Brush, R.A., AIA, Klein and Hoffman, Inc., Chicago, IL, USA



Fortifications—[CS04]

Room: Auditorium
Session Chair: David West

Military Architecture in the Caribbean Countries: Recollections from Europe and New Perspectives

Mariachiara Faliva, M.S. Monument Preservation, Thornton Tomasetti, New York, NY, USA

The Performance of Traditional Mortars over 300 Years: Innovation, Success, and Failure at El Castillo de San Cristóbal, San Juan, Puerto Rico

Jeremy Wells, M.S. Historic Preservation, Clemson University, Central, SC, USA

Development of an Architectural Conservation Program for the Historic Fortification City Walls of Old San Juan—From the San Justo Bastion to the City Gate

Glenn Boornazian, Architectural Conservator, Integrated Conservation Resources, New York, NY, USA

Conference Schedule

Monday

10:00 a.m.–11:00 a.m.

Exhibit and Book Store Grand Opening
See page 22 for demo times and exhibitors.

Learn about our exhibitors' products and services and purchase books from our Bookstore.

10:00 a.m.–4:00 p.m.

Exhibits, Bookstore and Demos
San Cristóbal Lobby
See page 22 for demo times and exhibitors.

11:00–11:45 p.m.

APT Annual General Meeting
San Cristóbal A

Learn about APT's accomplishments of the past year and goals for next, and meet the new board members. All attendees are welcome to attend.

Noon–12:45 p.m.

Lunch with Exhibitors
San Geronimo Ballroom

A ticket is required and was included in your registrant envelope if you ordered one in advance.

Lunch tables will be labeled with exhibitor names so you can eat with a supplier and learn more about the company's products and/or services. You will also enjoy a preview of the APT Montréal 2008 Conference.

1:00–3:00 p.m.

Paper Sessions



Climate and Early Design and Construction—[CS05]

Room: San Cristóbal A
Session Chair: Susan Ross

La Quincha en el Perú

Juan De Orellana Rojas, Arquitecto, Catedrático Universidad Femenina del Sagrado Corazón UNIFE, Barranco, Lima, Perú

Preservation by Using Natural Resources: Detailed Investigation Toward the Applicability of BADGIR in the Preservation of Internal Material

Fatemeh Mehdizadeh Saradj, Msc, PhD, I.C.E.O, ICOMOS, IUST, Tehran, Iran

18th and 19th Century Sustainable Construction Techniques in the Eastern United States

Lisa Marie Tucker, AIA, ASID, LEED AP, Virginia Polytechnic Institute and State University, Blacksburg Radford, VA, USA



Old World Craftsmanship—[CS06]

Room: San Cristóbal CD
Session Chair: Elyn Goldkind

La arquitectura de las Islas Canarias como puente entre la europea y la americana

Ignacio-Javier Gil Crespo, Profesor, Escuela Técnica Superior de Arquitectura de Madrid, Universidad Politécnica de Madrid, Madrid, España and Javier de Cárdenas y Chávarri, Profesor, Escuela Técnica Superior de Arquitectura de Madrid, Universidad Politécnica de Madrid, Madrid, España

The Interplay of Ideology and Tradition in the Creation of a New Architectural Form at the San Antonio Missions of New España

Anne Oliver, M.S. Historic Preservation, Oliver Conservation Group, Salt Lake City, UT, USA

Conference Schedule

Monday

La madera en la arquitectura Mexicana

Carlos Flores Marini, Presidente de la Organizacion del Gran caribe para los Monumentos y Sitios, CONSTHAL S. A. de C. V., Ciudad de México, Distrito Federal, México and Diana Ixchel Reyes Rodriguez, CARIMOS



Materials in Seismic Locations—[CS07]

Room: San Cristóbal EFG
Session Chair: John Matteo

Evaluation of Architectural Grouts in Seismic Areas

Charu Chaudhry, Graduate Student, Historic Preservation, University of Pennsylvania, Philadelphia, PA, USA

Califortification: Earthen Architecture Strengthening Schemes in the Adobe Capitol

John Dumsick, Robert Silman Fellow for Preservation Engineering, National Trust for Historic Preservation, Robert Silman Associates, Structural Engineers, PLLC, Washington, DC, USA

La tecnología prehispanica adaptada a la arquitectura colonial Peruana

Cesar Enrique Maguiña Gomez, presidente ejecutivo del ICAM, Instituto Americano de Investigacion y Conservacion, Chiclayo, Perú



Training & Preservation Education—[CS08]

Room: Auditorium
Session Chair: James Cocks

Creating a High School Curriculum for the Preservation Arts: Old World Precedents for Evolving New World Traditions

Kate Burns Ottavino, M.Arch, M.S. Historic Preservation, New Jersey Institute of Technology/Center for Architecture & Building Science Research, Newark, NJ, USA

Preservation Craftsmanship: Early Methods and New Expectations

Krystyn Hastings-Silver, National Trust for Historic Preservation, Tarrytown, NY, USA

San Bartolo un pueblo de madera en el NorOriente Peruano

Rosana Correa Alamo, Arquitecta, Miraflores, Perú

3:15–5:00 p.m.

Committee Meetings: (all APT members are welcome to attend any meeting of interest)

Chapters Committee Meeting
San Geronimo Foyer A

Codes Committee and Preservation Engineering Committee combined meeting
San Geronimo Foyer B

Publications Committee
San Cristóbal G

4:00–5:30 p.m.

Student Gathering
Caribe Hilton's Oasis Garden

All students are invited to visit with members of the APT Board of Directors at this informal gathering.

5:00–5:45 p.m.

Buses depart for COF events
Caribe Hilton main entrance

Conference Schedule

Monday

Leave early for the Iglesia San José so you can examine the ongoing restoration work.

6:15 p.m.

Buses depart from the Caribe Hilton for Old San Juan

If you're not attending the College of Fellows Lecture or Reception, you can meet the bus at the entrance to the Caribe Hilton for a ride into Old San Juan and an evening on the town.

6:00–7:00 p.m.

APT College of Fellows Keynote Lecture
Iglesia San José (Church of San José)

Engineer José “Pepe” M. Izquierdo-Encarnación will draw on his extensive knowledge and experience as he presents **“Influence of Materials and Engineering Knowledge in the Constructed Patrimony: A Comparison of Four Continents,”** a look at how available materials and the developed construction technology limited or exalted the Constructed Patrimony throughout history.

The venue, Iglesia San José, was constructed as the Dominican Order's convent church in 1532 and constitutes one of the oldest ecclesiastical buildings in the New World. Its significant and unique Gothic sanctuary and crossing, together with the numerous modifications made by subsequent religious orders, makes it one of the most important historic structures in Puerto Rico and is internationally recognized in the World Monument Watch's bi-annual list of 100 Most Endangered Sites in 2004.

7:00–8:00 p.m.

APT College of Fellows Reception
Galería Nacional de ICP, Convento de los Dominicos / National Gallery of the ICP,
Dominican Convent

A ticket is required and was included in your registrant envelope if you ordered one in advance. This event is sold out.

The National Gallery of the ICP, Convento de los Dominicos is one of the oldest known structures in Puerto Rico. Hors d'oeuvres and drinks will be served.

Following the reception, buses will depart from the National Gallery for the Hilton.

Dinner is on your own.

8:00 p.m.

Chapters Mixer
Hotel El Convento, 100 Cristo Street

All APT Chapter members are invited to gather in the lounge at El Convento Hotel, a former Carmelite convent that is now a luxury hotel in the heart of Old San Juan.

8:00–10:30 p.m.

Catalan Vaulting Discussion Group
Room: Conference 10

Late Night Shuttle

Buses depart at 9:00, 10:00, and 11:00 p.m. from Old San Juan for the Caribe Hilton.

Meet the bus at Plaza Colón, at the corner of San Francisco and O'Donnell streets on the east side of Old San Juan. If you miss the bus, you can call Major Taxi Cabs at 787/723-2460.

Conference Schedule

Tuesday

Tuesday, November 6

7:00 a.m.–6:00 p.m.

APT Registration Desk Open
Hotel Lobby

7:00–10:00 a.m.

Continental Breakfast
San Cristóbal Lobby

7:15–8:30 a.m.

Committee Meetings: (all APT members are welcome to attend any meeting of interest)

Engineering Technical Committee Meeting
Room: Conference 10

Codes Committee
Executive Boardroom

Technical Committee on Modern Heritage
Flamingo A

Technical Committee on Sustainable
Preservation
Flamingo B

8:00–9:00 a.m.

Chapters Breakfast
San Geronimo A

8:00 a.m.–4:00 p.m.

Exhibits, Bookstore and Demos
San Cristóbal Lobby
See page 22 for demo times and exhibitors.

9:00–11:00 a.m.

Paper Sessions



Effects of Climate on Historic Materials—[CS09]

Room: San Cristóbal A
Session Chair: Stephen Tilly

Abandoned in the Wilderness: Survival and Rescue at the Adirondack Iron Works

*Janet Null, R.A., Argus Architecture &
Preservation, P.C., Troy, NY, USA*

Evaluating the Threat of Environmental Change on Historic Resources: A Case Study and Assessment of Tools

*Ashley Aiken, EIT, Morrison Hershfield
Corporation, Bellevue, WA, USA*

A HAMMER for the 21st Century

*Tad Britt, RPA, U.S. Army Corps of
Engineers, U.S. Army Engineer Research
and Development Center, Champaign, IL,
USA*



Decorative Painting Conservation—[CS10]

Room: San Cristóbal CD
*Session Chair: Jessica
Zullinger*

Kiva 3 of Coronado State Monument, NM: The Program to Conserve a 1938 Replica Prehistoric Kiva and Mural Executed in True Fresco by a Zia Pueblo Artist

*Constance Silver, Preservar, Inc.,
Brattleboro, VT, USA and Steven
Weintraub, Art Preservation Services, New
York, NY, USA*

The Discovery and Conservation of Spanish Colonial Wall Paintings in the Sacristy Rooms of the Alamo Shrine and the Church of Mission Concepcion in San Antonio, Texas

*Mary "Cisi" Canales Jary, AIC, Restoration
Associates Ltd, San Antonio, TX, USA*

Conference Schedule

Tuesday

Recreation of Spanish Colonial Interior Decoration at the Casa Ramon Power Y Giralt, Old San Juan, for the Conservation Trust of Puerto Rico

John Canning, John Canning Painting & Conservation Studios, Cheshire, CT, USA and Beatriz del Cueto, FAIA, Pantel, del Cueto & Associates, Guaynabo, Puerto Rico



Stucco—[CS11]

Room: Auditorium

Session Chair: Pamela Hawkes

Analysis and Restoration of Lime-based Renders on an 18th Century Coquina Stone House in Saint Augustine, Florida

Mark Rabinowitz, FAIC, Conservation Solutions, Inc., Washington, DC, USA

Older Adobe ISO Compatible Render: The Saga of Reintroducing Lime Renders in the Southwestern United States

Edward Crocker, Crocker Ltd., Santa Fe, NM, USA and Margaret Thomson, PhD, Chemical Lime Company, Henderson, NV, USA

Concealing or Expressing the Past? Issues in Restoring an Early 20th Century Stucco

Christopher Tavener, AIA, Einhorn Yaffee Prescott, A & E, P.C., Albany, NY, USA and Petr Justa, Gema Art Group, Prague, Czech Republic



Catalan Vaults—[CS12]

Room: San Cristóbal EFG

Session Chair: Kent Diebolt, FAPT

The Guastavino System: The Spanish Contribution to the Construction of the American City and its Architectural Identity

M. Mar Loren, Arch., B.Arch., M.Arch, PhD, Department History, Theory and Architectural Composition/School of Architecture, Seville University, Seville, Andalucía, España

La vuelta Catalana en la arquitectura del siglo XXI

Oriol Rosello Viñas, Arquitecto, Bangolo arquitectos, Banyoles, Catalunta, España

The National Arts Schools of Havana (1961-1965): Old World Construction in Modern Tropical Heritage

Hansel Hernandez-Navarro, Superstructures Engineers + Architects, New York, NY, USA

11:15 a.m.–12:45 p.m.

Lunch and APT's Setting the Agenda Planning Meeting

San Geronimo Ballroom

A ticket is required and was included in your registrant envelope if you ordered one in advance.

Contribute to APT's future as the association shapes its future course with your input. Join APT members for a lively lunch and work session. The results of this lunch will inform APT's next five-year strategic plan which will be unveiled at our 40th Anniversary Conference next year in Montréal.

1:00–3:00 p.m.

Paper Sessions

Conference Schedule

Tuesday



Craftsmanship—[CS13]

Room: San Cristóbal A
Session Chair: Jan
Anderson, FAPT

Arquitectura medieval valenciana y de la piedra seca: proyecto de restauración de la ermita de San Bertomeu

Marta Mompó, and Alejandro Díaz Úbeda, Escuela Técnica Superior de Arquitectura de Valencia, Universidad Politécnica de Valencia, Valencia, España

Intervention in the Monumental Site of San Juan del Hospital in Valencia, España

Adolfo Alonso Durá, Arch., PhD, Universidad Politécnica de Valencia, Valencia, España and Verónica Llopis Pulido, PhD student, Universidad Politécnica de Valencia, Valencia, España



Vaults—[CS14]

Room: San Cristóbal CD
Session Chair: Wanda Lopez
Bobonis

Construcción de bóvedas en iglesias coloniales. Análisis de cuatro iglesias de los siglos XV y XVI en Bogotá

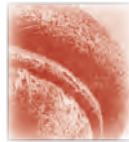
Cecilia López Pérez, Facultad de arquitectura y diseño, Pontificia Universidad Javeriana, Bogotá, D.C., Colombia

Gaudí, Sert y Dieste. La bóveda, entre estructura y significado

Fernando Vegas Lopez-Manzanares, Doctor arquitecto. Profesor del Departamento de Composición Arquitectónica, Departamento de Composición Arquitectónica de la Universidad Politécnica de Valencia, Valencia, España and Camilla Mileto, Departamento de Composición Arquitectónica de la Universidad Politécnica de Valencia, Valencia, España

The Baltimore Cathedral

John Waite, FAIA, FAPT, John G. Waite Associates, Architects, Albany, NY, USA and Stephen F. Reilly, AIA, John G. Waite Associates, Architects PLLC, Albany, NY, USA



Successes and Failures—[CS15]

Room: San Cristóbal EFG
Session Chair: Ron Staley,
FAPT

Patrimonio arquitectónico y técnicas constructivas tradicionales:

conservación, continuidad e innovación
Camilla Mileto, profesora del Departamento de Composición Arquitectónica, Escuela de Arquitectura de la Universidad Politécnica de Valencia, Valencia, España

When Materials Fail: Questions of Reconstruction, Restoration, and Substitute Materials in a Colonial Revival Bell Tower

Henry Moss, AIA, LEED, Bruner/Cott & Associates, Inc., Cambridge, MA, USA; Matthew Tonello, P.E., Consiglio Construction Company, Milford, MA; and Arthur MacLeod, P.E., MacLeod Consulting, Belmont, MA

Modern Technology Applied to Conservation of Ancient Heritage at the Temple of Angkor Wat

Michael Schuller, P.E., Atkinson-Noland & Associates, Inc., Boulder, CO, USA and Glenn Boornazian, Integrated Conservation Resources, New York, NY USA

Conference Schedule

Tuesday



Iglesia San José: Restoration of a 16th Century Church—[CS16]

Room: Auditorium

Session Chair: Frank Matero

New Research at Iglesia San José, San Juan, Puerto Rico: Historical, Architectural, Archaeological and Structural Investigations

Agamemnon Pantel, PhD, and Beatriz del Cueto, FAIA, Pantel, del Cueto & Associates, Guaynabo, Puerto Rico; and Edmund Meade, P.E., Robert Silman Associates, P.C., New York, NY, USA; and Arturo Zaragoza Catalán, Sr. Generalitat Valenciana, Valencia, España

Investigation, Analysis and Emergency Treatment of the Dome Murals of the Capilla de Nuestra Señora del Rosario

Cynthia Silva, M.S. Historic Preservation, Alexandria, VA, USA and Lyles McBratney, Graduate Program in Historic Preservation/University of Pennsylvania, Philadelphia, PA, USA

Argamasa Applied as a Water-Resistant Masonry Surface Finish on the Dome of the Capilla de Nuestra Señora del Rosario

Frank Matero, Graduate Program in Historic Preservation/University of Pennsylvania, Philadelphia, PA, USA and Jill Verhosek, Graduate Program in Historic Preservation/University of Pennsylvania, Philadelphia, PA, USA

3:15–4:45 p.m.

APT Board of Directors Meeting
By Invitation
San Geronimo A

College of Fellows Committee Meeting
Executive Boardroom

5:15–5:45 p.m.

Buses depart from the Caribe Hilton's main entrance for the APT Social and Awards Banquet and COF Installation

6:00–11:00 p.m.

APT Social and Awards Banquet and COF Installation
Museo de Arte de San Juan

A ticket is required and was included in your registrant envelope if you ordered one in advance. This event is sold out.

Following an elegant dinner featuring native cuisine, APT will celebrate its award winners, meet this year's Student Scholars, congratulate the newest inductees into the College of Fellows and applaud the winners of the APT Endowment Fund Raffle.

Following the banquet, buses will depart from the Museum for the Hilton.

6:15 p.m.

Buses depart from the Caribe Hilton for Old San Juan

If you're not attending the Awards Banquet, you can meet the bus at the entrance to the Caribe Hilton for a ride into Old San Juan and an evening on the town.

Late Night Shuttle

Buses depart at 9:00, 10:00, and 11:00 p.m. from Old San Juan for the Caribe Hilton.

Meet the bus at Plaza Colón, at the corner of San Francisco and O'Donnell streets on the east side of Old San Juan. If you miss the bus, you can call Major Taxi Cabs at 787/723-2460.

Conference Schedule

Wednesday

Wednesday, November 7

7:00–9:00 a.m.

APT Registration Desk Open
Hotel Lobby

7:00–9:00 a.m.

Continental Breakfast
Hotel Lobby

8:00 a.m.–4:00 p.m.

Architectural Tour of the Historic Center of Ponce

7:45 a.m.—Meet the bus at the Caribe Hilton’s main entrance.

Continental breakfast at the hotel is followed by a 75-minute bus ride to Ponce. This tour will include a lot of walking. A ticket is required and was included in your registrant envelope if you ordered one in advance. Lunch is included. This event is sold out.

Ponce is Puerto Rico’s second largest city and was founded in 1692 by Juan Ponce de Leon. Ponce is also known as the “Ciudad Señorial” (Majestic City), because of its many beautiful 19th-century Victorian and neoclassical buildings and facades. Nearly \$500 million dollars have been spent preserving the colonial core of Ponce. The heart of Ponce dates from the late 17th century and has been declared a national treasure. It consists of plazas and churches and highly decorative colonial homes, some glorious fountains and a unique fire station.

8:00 a.m.–4:00 p.m.

Las Cabezas San Juan Nature Reserve (Fajardo) and Lighthouse Tour
7:45 a.m.—Meet the bus at the Caribe Hilton’s main entrance.

Continental breakfast at the hotel is followed by a 60-minute bus ride to Fajardo. This tour will include a lot of walking. A ticket is required and was included in your registrant envelope if you ordered one in advance. Lunch is included. Tickets may be obtained at the APT registration desk while supplies last.

Fajardo, Puerto Rico is known as the “Gateway to the Caribbean.” This tour will explore Las Cabezas de San Juan, the Fajardo Nature Reserve and Lighthouse. In 1975, The Conservation Trust rescued this site of immense ecological importance from a tourist development proposed for the area. As part of the restoration efforts began on the lighthouse in 1989, the Trust conducted extensive research to guarantee the authenticity of all historic aspects of the structure using 19th-century techniques.

8:00 a.m.–4:00 p.m.

Hacienda Buena Vista Coffee Plantation Tour
7:45 a.m.—Meet the bus at the Caribe Hilton’s main entrance.

Continental breakfast at the hotel is followed by a two-hour bus ride to the coffee plantation outside of Ponce. This tour will include a lot of walking. A ticket is required and was included in your registrant envelope if you ordered one in advance. Lunch is included. Tickets may be obtained at the APT registration desk while supplies last.

Conference Schedule

Wednesday

Hacienda Buena Vista is in a mountainous area between Adjuntas and Ponce. In 1833 Spaniard Salvador de Vives built what would become one of the most important haciendas (ranches) on the southern part of the Island. After The Conservation Trust of Puerto Rico acquired Buena Vista in 1984, it began a meticulous process of restoration. Using 19th century construction techniques and traditional materials, they restored the original machinery to work precisely as it did in 1847. The rooms of the manor house were restored to the style of the 1890s, using period furniture.

8:30 a.m.—Noon

Museum of Art of Puerto Rico

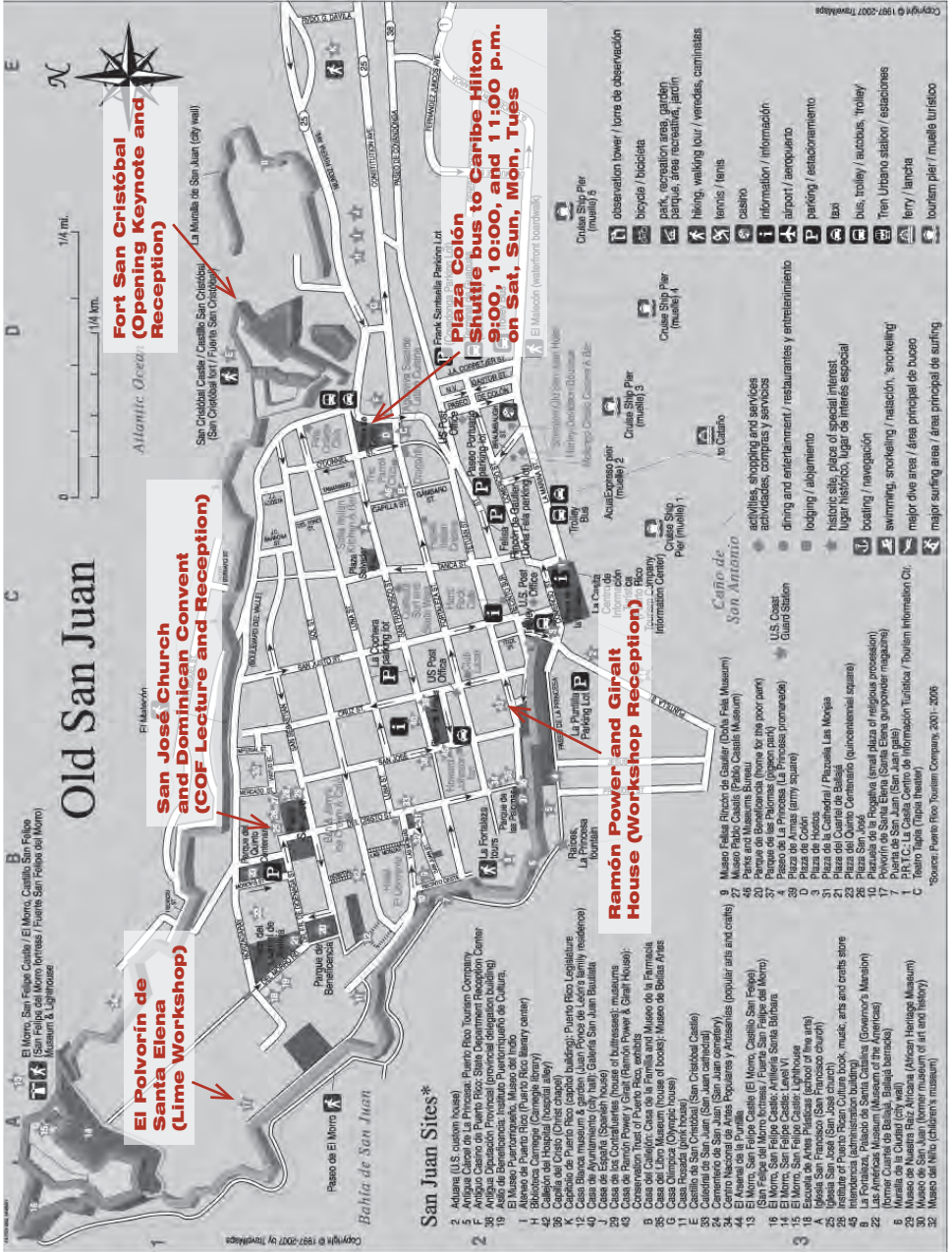
8:15 a.m.—Meet the bus at the Caribe Hilton's main entrance.

Following the welcome reception and refreshments hosted by the museum, you will enjoy a docent-led tour (in English). A ticket is required for this field session. Lunch is on your own.

Since receiving its first visitors six years ago, the Museo de Arte de Puerto Rico (MAPR) has become Puerto Rico's premier art institution, accomplishing its mission through the exhibition, interpretation and conservation of significant works by distinguished Puerto Rican artists, from colonial times until the present, alongside key examples of international art. This is the venue of the previous night's Awards Banquet. Return for an in-depth look at the museum's collections.



Map of Old San Juan



* Caribe Hilton Hotel

Fort San Cristóbal
(Opening Keynote and Reception)

San José Church and Dominican Convent
(COF Lecture and Reception)

El Polvorin de Santa Elena
(Lime Workshop)

Plaza Colón
Shuttle bus to Caribe Hilton
9:00, 10:00, and 11:00 p.m.
on Sat, Sun, Mon, Tues

Ramón Power and Giralt House
(Workshop Reception)

San Juan Sites*

- 1 Adlante (U.S. custom house)
- 2 Antiguo Cuero de La Princesa Puerto Rico Tourism Company
- 3 Antigua Capilla de San Felipe (former residence of Don Juan de Rivera)
- 4 Antigua Capilla de San Felipe (former residence of Don Juan de Rivera)
- 5 Antigua Capilla de San Felipe (former residence of Don Juan de Rivera)
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- 31 Antigua Capilla de San Felipe (former residence of Don Juan de Rivera)
- 32 Antigua Capilla de San Felipe (former residence of Don Juan de Rivera)

Student Scholarship Recipients

Amelia Bagnall

Winterthur/University of Delaware Program
in Art Conservation

*“Conservation Assessment and Digital
Documentation of Shangri La’s Damascus
Room”*

Diannett Bataille

Universidad Politecnica de Puerto Rico

“Por un Nuevo San Juan”

Valentina Cristini

Universidad Politecnica de Valencia
(España)

*“Valencia ciudad vella: huellas de artesanía
constructiva en fabricas tradicionales de
ladrillo”*

Amila Ferron

University of Pennsylvania

*“The Consolidation of Earthen Surface
Finishes: A Study of Disaggregating
Plasters at Mesa Verde National Park”*

Tenaya Hills

University of Texas at Austin

*“Revitalizing Hacienda San Jose: An
Adaptive Reuse Plan for an 18th Century
Mexican Agave Farm”*

Kristina Kupferschmid

University of Texas at Austin

*“PIXE: Trace Element Analysis of Historic
Materials”*

Lurita McIntosh

Columbia University

*“Ethyl Silicate as an Alternative Binder for
Grout and Mortar for use with American
Sandstones”*

Rosalía Mosqueda Avila

Universidad Autonoma Metropolitana

*“Corredor Insurgentes-Tlapan. Reutilización
de inmuebles con valor patrimonial en el
centro histórico de Tlalpan”*

Paul Terpeluk

Savannah College of Art and Design

*“Copper Roofing Technology—Historical
Evolution and Analysis”*

Aliya Turner

University of Pennsylvania

*“The Effects of Building Exposure on
Decay”*

Lauren Vienne

The University of Texas at Austin

*“Cob: A Traditional Building Practice in
Modern Day Use”*

Ege Yildirim

Ankara University, Institute of Social
Sciences

*“Adapting Traditional Principles of Urban
Settlement in Anatolia”*

Martin Weaver Student Scholarship for 2007

Tomás Roselló Jaunzarás

Universidad Politecnica de Valencia

*“Estudio de los sistemas constructivos y
daños de una casa de pueblo en Torrent
(Valencia)”*

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The Puerto Rico Tourism Company

Rums of Puerto Rico

San Juan National Historical Site, National
Park Service

School of Architecture of the Polytechnic
University of Puerto Rico

University of Puerto Rico School of
Architecture

Live Floor Demonstrations

Live demonstrations will take place in the San Geronimo Ballroom as follows:

Monday, November 5 at 10:15–10:45 a.m. and 3:15–3:45 p.m.

Tuesday, November 6 at 9:00–11:00 a.m.

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Committee Co-Chair

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