

# APT San Juan 2007

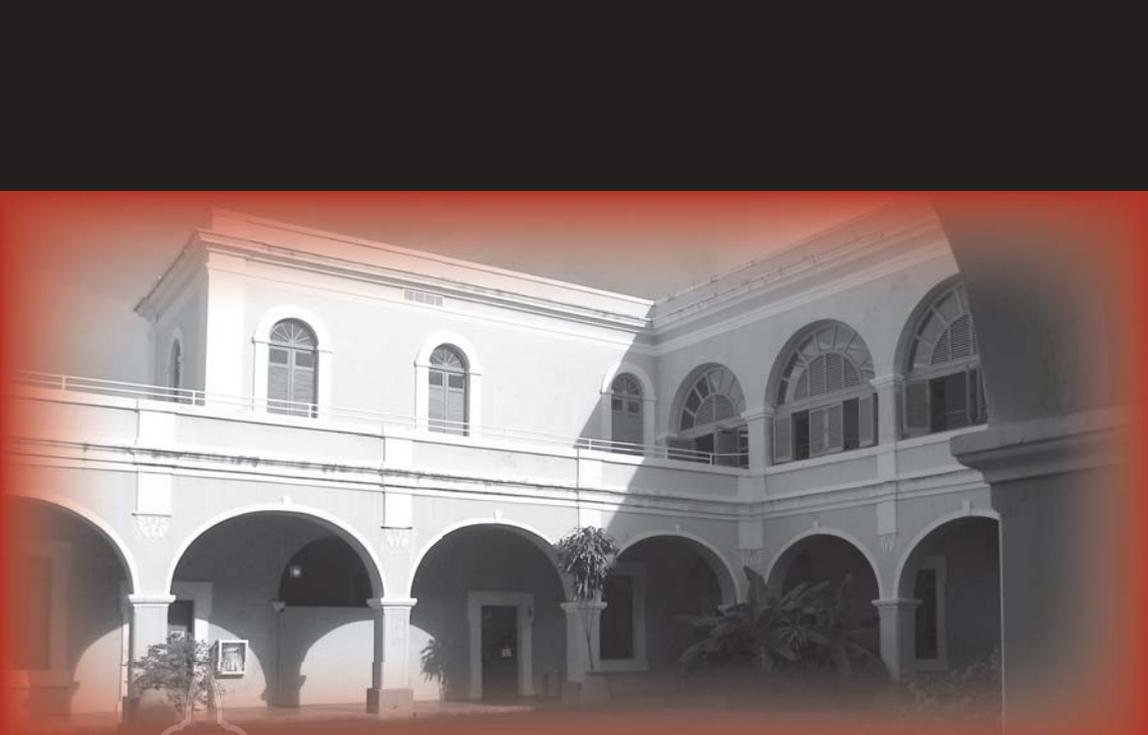
*Old World Technologies  
Adapting in the New World*

**November 3-7, 2007**

**Caribe Hilton  
San Juan, Puerto Rico**



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



The Association for Preservation Technology International (APT) is a cross-disciplinary, membership organization dedicated to promoting the best technology for conserving historic structures and their settings. Membership in APT provides exceptional opportunities for networking and the exchange of ideas.

APT members, who represent more than 30 countries, are professionals involved in the application of methods and materials to maintain, conserve, and protect historic structures and sites for future use and appreciation. The international, interdisciplinary character of APT makes it the premier worldwide network for anyone involved in the field of historic preservation.

For more information, visit [www.apti.org](http://www.apti.org). A copy of this brochure in Spanish can be found at [www.apti.org](http://www.apti.org).

**I**t might have taken 39 years, but APT is thrilled to offer our first off-shore Annual Conference this year in San Juan, Puerto Rico! This year's conference offers all that you've come to expect from our conferences—peer reviewed papers, dynamic, relevant keynote speakers, and interactive workshops and tours. It also presents a wider world view of the preservation community. Our speakers represent nine countries and sessions will have simultaneous English-Spanish, Spanish-English translation. We invite you to join us in one of the most culturally and historically significant islands in the Caribbean where you can learn about the latest in preservation technology from around the world, and work on your sun tan too!

Barbara A. Campagna

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# San Juan and APT

**W**elcome to APT's first off-shore conference! Meeting in the Caribbean has opened the doors to exciting new opportunities for APT's Annual Conference. It is a multi-day event packed with technical presentations in four concurrent tracks, a range of local field sessions, and workshops that explore our theme, *Old World Technologies—Adapting in the New World*. Also featured are social events in historic settings and extensive opportunities for the friendly and productive networking that characterizes all APT events.

APT continues to draw speakers and attendees from around the world. This year speakers representing the United States, Canada, Mexico, Peru, Colombia, Argentina, Cuba, Spain, Iran, the Czech Republic, and the United Kingdom will share their expertise and present an array of papers on materials, craftsmanship and climate as they relate to the conference theme. Thanks in part to a generous grant from The Getty Foundation, this year's conference will have simultaneous Spanish-English and English-Spanish translation of the general sessions, paper presentations, and keynote addresses.

In addition to the speakers presenting keynote addresses and papers, we have experts from around the world offering hands-on training for the workshops on Lime, Wood and Conservation. The topics were chosen in response to requests from APT members who identified needs in these areas. The workshops are described in-depth beginning on page 14. Attendance is limited for each workshop so register early.

As the workshops take us around San Juan, so do our social events and field

sessions. While in the city we will explore a variety of venues—from the majesty of San Juan's forts to the luxury of the Governor's Mansion, La Fortaleza. The venues for this year's events will introduce you to the many sides of San Juan and its rich history.

San Juan's history includes being one of the first stops on the trade routes from the Old World to the New. Many of the construction technologies craftsman brought with them were then transferred on to the southern United States and Latin America where climates were similar to that of Puerto Rico. In addition, as technologies were developed in the New World, as a direct result of the differing climate and new materials that became available to work with, modified technologies were transferred back to the Old World.

The walled city of Old San Juan, a UNESCO World Heritage Site, is a unique mixture of more than five centuries of built environment in the New World after contact with the European continent. It serves as an excellent example of the dynamic interaction of New and Old World which had influences in both directions.

*Did You Know?*

**There will be lots of walking up and down hilly streets in Old San Juan. Bring comfortable shoes!**

# Keynote Speakers

## Opening Session

### Keynote—[FSO 1]

#### The Problems of Preserving Paradise: Architectural Conservation in the Hispanic Caribbean

6:00–8:00 p.m.

Sunday, November 4

Castillo de San Cristóbal (Fort San Cristóbal)

#### Keynote Speaker

Jorge Rigau, FAIA  
Architect and Historian  
San Juan, Puerto Rico

Throughout the years, the built heritage of the Antilles has been repeatedly under attack, literally and metaphorically. To this day, fortifications, towns and dwellings alike continue to face the detrimental impacts of both nature and mankind. Economics, politics, fashion, and a growing confidence in technology have shaped a process that has ensured, in spite of it all, that the legacy of Cuba, Dominican Republic and Puerto Rico survives proudly.

Architect Jorge Rigau graduated from Cornell University and holds a Master's degree in History from the University of Puerto Rico. He directed the Department of Cultural Affairs for that institution and the Student Arts League of San Juan. First Executive Director of the *Colegio de Arquitectos y Arquitectos Paisajistas de Puerto Rico*, Rigau has practiced his profession since 1980, having been elevated to Fellow status by the American Institute of Architects (AIA) in 2000.

As one of the finest researchers of turn-of-the-century architecture in the Hispanic Caribbean, Rigau has authored the books *Puerto Rico 1900* (1992) and *Havana/La Habana* (1994). For years, he has been a newspaper critic, having produced a number of writings, articles and projects that have

received local and international awards. For more than a decade, Rigau has directed innumerable research and built projects, most related to architecture, urbanism and conservation in the Antilles.

Historian, practitioner, and architecture critic in newspapers and trade journals, he founded The New School of Architecture at Polytechnic University of Puerto Rico (1995), where he is professor and former Dean. Rigau has lectured at numerous universities throughout the United States, Latin America, the Caribbean, and Spain. In 2000, the Panamerican Federation of Architects' Associations granted him the Distinguished Educators' Award of Latin America.

The Opening Reception will immediately follow Mr. Rigau's keynote presentation at **Castillo de San Cristóbal** (Fort San Cristóbal), part of the city's huge defense system. Built in 1634 (completed in 1771), it was considered the Gibraltar of the West Indies. San Cristóbal was supported by a massive system of outworks (independent structures) which provided defense in depth and is one of the largest defenses ever built in the Americas. It rose 150 feet, covering 27 acres of land. As if its size and height weren't sufficient to intimidate enemies, its intricate modular design was sure to foil them. A strategic masterpiece, it features five independent units, each connected by moat and tunnel; each fully self-sufficient should the others fall. It is part of the San Juan National Historic Site, which is now administered by the National Park Service, Department of the Interior of the United States.

# Keynote Speakers

## College of Fellows Lecture—[FS02] Influence of Materials and Engineering Knowledge in the Constructed Patrimony: A Comparison of Four Continents

6:00–7:00 p.m.

Monday, November 5

Iglesia San José (San José Church)

### Keynote speaker

José M. Izquierdo-Encarnación, engineer and former Secretary of State of Puerto Rico

Structural engineer by education and profession, Jose M. “Pepe” Izquierdo-Encarnación has served in many professional, civic and public organizations. Formerly the Secretary of State and Secretary of Transportation and Public Works for the Commonwealth of Puerto Rico, he is now Principal of PORTICUS, a consulting firm located in Rio Piedras, Puerto Rico.

Mr. Izquierdo is a past president of the American Concrete Institute (ACI) International. He has a long and distinguished record of service to ACI and is a Fellow of the Institute. He is also a past president of the Institute of Engineers and Land Surveyors of Puerto Rico. He has been very active in many civic organizations and several public corporations in Puerto Rico.

Mr. Izquierdo received his bachelor’s and master’s degrees in civil engineering from the University of Puerto Rico.

Active in professional engineering since 1980, he has a stellar career in the private sector and has held a number of positions in the Puerto Rican government. His work as a senior structural engineer for Capacete-Martin & Associates and, since 1986, as a partner in his own firm, has led him to specialize in historic preservation projects and seismic rehabilitation.

He has written many papers and spoken extensively on structural engineering and analysis, promoted the use of simplified methods for structural design and has worked in numerous restoration projects.

Mr. Izquierdo will draw on his extensive knowledge and experience as he discusses how the available materials and the developed construction technology limited or exalted the Constructed Patrimony throughout history. In his examination he will explore four continents and compare the best examples from China, Egypt, the Roman Empire and the Mayans. He will compare wall construction, roof systems and infrastructure as he points out the development of techniques for managing stone, wood and limestone, as well as the invention of the brick and its evolution—the parameters of which formed the possibilities of the Constructed Patrimony.

The College of Fellows Lecture will be at **Iglesia San José**. What we know today as Iglesia San José was originally called *Iglesia de Santo Tomás de Aquino* and constructed as the Dominican Order’s convent church in the city of Puerto Rico, island of *San Juan Bautista*. Often referred to as *Iglesia de Santo Domingo* up to the mid-19th century, the location chosen for the convent and the church were on the highest point of the *isleta* of San Juan, on a site donated by its first governor, Juan Ponce de León. Construction began in the early part of the 16th century (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.

# Conference Tracks

## Climate Track



Growing recognition of the relationship between sustainability and preservation includes

reconsideration of traditional building design elements that already contribute to making historic properties sustainable. Many traditional building technologies and planning ideas are inherently green, and are based on the climate and resource challenges and opportunities of a specific region. This includes the use of durable and renewable building materials like masonry and wood, the use of low-technology, energy saving measures like massive wall constructions, utilizing natural daylight and ventilation, the strategic use of vegetation and locally adapted built elements like canopies, porches, storm windows and shutters, and at a broader scale, more dense development and mixed-use programming.

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## Craftsmanship Track



The design and construction of the built environment in a region is typically based on the readily available

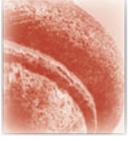
materials and climate together with the traditions and experience of the native builders and the craftsman who settled in the area. Early craftsman who came to the New World were trained in Old World technologies and brought their knowledge of construction with them. However, the transfer of technology and materials was also *from* native builders in the New World to the Old. This collective knowledge of design and construction has been passed on to each new generation. Nevertheless, as technology and society have changed, many of the original skills have started to disappear or have been completely lost.

*Polvorín de Santa Elena, El Morro (site of the Lime Workshop)*



# Conference Tracks

## Materials Track



Historically, materials used in construction have included whatever is readily available locally. Throughout time, innovation inherently brings risk of failure, and not all innovative ideas have performed as expected in the long term. As construction technology has advanced, and transportation routes improved, new materials such as reinforced concrete, metal and glass, among others, have been introduced. This track will explore the use of traditional materials and how evolving technology has affected the use of material in positive and negative ways. An example of this is the use of wood in tropical climates. Traditionally wood was used to construct buildings, but as technology

evolved and it appeared harder to maintain the wooden structures due to fire, natural pests, and climatic conditions, this in turn may have fostered the prolific use of the more permanent masonry and later concrete structures.

## Special Topics Track



Each time slot includes a fourth track that looks at a specific topic within the 2007 conference theme.

## Abstracts

Abstracts for each paper are posted under "Paper Sessions" at <http://www.apti.org/conferences/2007/index.cfm>

*Fort San Geronimo (adjacent to the Caribe Hilton conference hotel)*



# Conference Sessions

8:00-10:00 a.m.  
Monday, November 5

## CS01 Effects of Climate in Warm-Weather Coastal Locations



**Nowhere to Run To**  
*Pilarín Ferrer Viscasillas, AIA,  
Guaynabo, PR, USA*

## Improving Hurricane Survivability for Heritage Structures

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

## Adaptation of Traditional Bermudian Wall Construction Using Modern Materials

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

## CS02 Mortar and Masonry Construction



### “Match the Mortar” ... Is the Mason Contractor Qualified?

*John Speweik, U.S. Heritage  
Group, Inc., Chicago, IL, USA; and*

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

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

*Dagmar Michoinova, P.E. and Pavla Rovnanikova,  
National Institute for the Care of Historical  
Monuments, Prague, Czech Republic*

## 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*

## CS03 Brick



### 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*

## CS04 Fortifications



### 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*

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

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

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

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

*Dominican Convent, present National Gallery of Art  
(site of COF Reception)*



# Conference Sessions

1:00-3:00 p.m.  
Monday, November 5

## CS05 Climate and Early Design and Construction



### La Quincha en el Perú (Quincha in Peru)

Juan De Orellana Rojas,

Arquitecto, Catedrático Universidad Femenina del Sagrado Corazon UNIFE, Barranco, Lima, Peru

**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, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

## CS06 Old World Craftsmanship



### La arquitectura de las Islas Canarias como puente entre la europea y la americana (The Canary Islands and Their

Architecture: A Bridge Between the Architecture of Europe and the Americas)

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

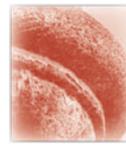
### La madera en la arquitectura Mexicana (The Use of Wood in Mexican Architecture)

Carlos Flores Marini, Presidente de la Organización del Gran Caribe para los Monumentos y Sitios, CONSTHAL S. A. de C. V., Ciudad de México, Distrito Federal, México

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

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

## CS07 Materials in Seismic Locations



### 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 Capital

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

### La tecnología prehispánica adaptada a la arquitectura colonial Peruana (Adapting Pre-Hispanic Technology to Peru's Colonial Architecture)

Cesar Enrique Maguiña Gomez, presidente ejecutivo del ICAM, Instituto Americano de Investigación y Conservación, Chiclayo, Perú

## CS08 Training & Preservation Education



### Creating a High School Curriculum for the Preservation Arts: Old World Precedents for

Evolving New World Traditions

Kate Burns Ottavino, New Jersey Institute of Technology/Center for Architecture and Building Science Research, Newark, NJ, USA

### El rescate de los oficios artesanales en Trinidad, Cuba (Rescuing the Artisan Trade in Trinidad, Cuba)

Nancy Benitez Vazquez, Oficina del Conservador de la Ciudad de Trinidad, Trinidad, Cuba

### San Bartolo un pueblo de madera en el NorOriente Peruano (San Bartolo: Wooden Construction in Peru's Northeast Region)

Rosana Correa Alamo, Arquitecta, Miraflores, Perú

# Conference Sessions

9:00-11:00 a.m.  
Tuesday, November 6

## CS09 Effects of Climate on Historic Materials



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; and Michael C. Henry, P.E., AIA, Watson & Henry Associates, Bridgeton, NJ, USA and University of Pennsylvania, Philadelphia, PA, USA

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

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

### A HAMMER for the 21st Century

Tad Britt, RPA, US Army Corps of Engineers, US Army Engineer Research and Development Center, Champaign, IL, USA

## CS10 Decorative Painting Conservation



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, del Cueto & Associates, Guaynabo, Puerto Rico, 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 Limited, LLC, San Antonio, TX, USA; and Pamela Jary Rosser PA, AIC, Restoration Associates Limited, LLC, Park City, Utah, USA

### 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 Artists

Constance S. Silver, Preservar, Inc., New York, NY, USA; and Steven Weintraub, Art Preservation Services, New York, NY, USA

## CS11 Stucco



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

Mark Rabinowitz, FAIC, and

Patricia Miller, Conservation Solutions, Inc., Washington, DC, USA; and Joseph K. Oppermann, FAIA, and Jenny Wilkins, JOSEPH K. OPPERMANN - ARCHITECT, P.A.

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

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

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

Edward Crocker, Crocker & Associates, Santa Fe, NM, USA; and Margaret Thomson, PhD, Chemical Lime Company, Henderson, NV, USA

## CS12 Catalan Vaults



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, Andalucia, Spain

### La vuelta Catalana en la arquitectura del siglo XXI (The Catalan Vault in 21st Century Architecture)

Oriol Rosello Viñas, Bangelo Arquitectos, Catalonia, Spain

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

Hansel Hernandez-Navarro, M.S. Historic Preservation, New York, NY, USA

# Conference Sessions

1:00-3:00 p.m.  
Tuesday, November 6

## CS13 Craftsmanship



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

(Medieval Valencian Architecture and Dry Stone: Restoring San Bertomeu Hermitage)

Marta Mompó, *Escuela Técnica Superior de Arquitectura de Valencia, Universidad Politécnica de Valencia, Valencia, Spain*

Intervention in the Monumental Set of San Juan del Hospital in Valencia, Spain

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

Old World Technologies—Their Loss and Revival

Krystyna Pytasz, and John Addison, *MICE, Geng (Hons), Mott MacDonald, Edinburgh, UK*

## CS14 Vaults



Gaudí, Sert y Dieste. La bóveda, entre estructura y significado (Gaudi, Sert and Dieste. The Vault: Between Structure and Meaning)

Fernando Vegas Lopez-Manzanares, *Doctor arquitecto, and Camilla Mileto, Composición Arquitectónica, Departamento de Composición Arquitectónica de la Universidad Politécnica de Valencia, Valencia, Spain*

The Baltimore Cathedral

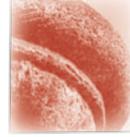
John Waite, *FAIA, FAPT, and Stephen F. Reilly, AIA, John G. Waite Associates, Architects, Albany, NY, USA*

Construcción de bóvedas en iglesias coloniales.

Análisis de cuatro iglesias de los siglos XV y XVI en Bogotá (Vault Construction in Colonial Churches: A Look at Four XV and XVI-Century Churches in Bogota)

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

## CS15 Successes and Failures



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 and Matthew Tonello, P.E., Consigli Construction Company, Milford, MA; and Arthur MacLeod, P.E., MacLeod Consulting, Belmont, MA, USA*

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

Michael Schuller, *P.E. Atkinson-Nolan & Associates, Inc., Boulder, CO, USA*

Patrimonio arquitectónico y técnicas constructivas tradicionales: conservación, continuidad e innovación (Architectural Heritage and Traditional Construction Methods: Conservation, Continuity and Innovation)

Camilla Mileto, *profesora del Departamento de Composición Arquitectónica, Escuela de Arquitectura de la Universidad Politécnica de Valencia, Valencia, Spain*

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



New Research at Iglesia

San José, San Juan, Puerto Rico: Historical, Architectural, Archaeological and Structural Investigations

Beatriz del Cueto and Agamemnon G. Pantel, *Pantel, del Cueto & Associates, San Juan, PR, USA; and Edmund Meade, Robert Silman Associates, P.C., New York, NY, USA*

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

Cynthia Silva 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

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

# Special Events

## **Workshop Reception— [SE 1]**

6:00–8:00 p.m.

**Saturday, November 3**

*(Registration Fee: No charge for workshop attendees; \$35 for others)*

The Workshop Reception will feature hors d'oeuvres and drinks at the **The Ramón Power y Giralt House**. Transportation will be provided from and to the Caribe Hilton.

The Ramón Power y Giralt House, a property of the Conservation Trust of Puerto Rico, is located in Old San Juan and is of great historical importance to the Island. Don Ramón Power y Giralt was born in this house October 27, 1775, to a family of landowners. In 1809 he became the Island's first elected representative to the Spanish Courts in Cádiz. Two years later he was elected Vice President of the Courts and implemented a series of economic, political, and social reforms for Puerto Rico that remained in effect until the return of absolute monarchy in Spain under Ferdinand VII in 1814.

In 1989, the Conservation Trust acquired the House and restored it in accordance to the norms of architectural harmony and original planning of Old San Juan. The house is now the headquarters of the Trust's executive offices. It is also home of the permanent exhibit, *OJO Isla* ("Island Alert"), the first interactive environmental exhibit in Puerto Rico.

## **Opening Reception and Student Scholarship Auction—[SE2]**

6:00–8:00 p.m.

**Sunday, November 4**

**Castillo San Cristóbal (Fort San Cristóbal)**

*(This complimentary event is included with your registration, but a ticket is required. Guest Registration Fee: \$35)*

Before and after Jorge Rigau's keynote presentation (see description on page 2), you can explore the fort and enjoy social time in the fort's main plaza. Hors d'oeuvres and complimentary drinks will be served. Dinner is on your own. Transportation will be provided from and to the Caribe Hilton.

The **Second Annual APT Student Scholarship Silent/Live Auction** will take place throughout the evening. Funds raised at the auction will go directly to the annual student scholarships, which allow 16 students to attend the conference each year and present their winning posters. Last year's auction was a huge success and this year's promises to be even more exciting, with items up for bid such as Exclusive Tours of Modern Icons: Philip Johnson's Glass House & Mies van der Rohe's Farnsworth House, a private vintage airplane ride, rare preservation books, and hard-to-find Viognier wine.

If you would like to contribute goods or services to the Silent/Live Auction, please contact the Student Scholarships Silent/Live Auction Chair, Rosanne Dubé, at (212) 219-6732 or [dube.r@shca.com](mailto:dube.r@shca.com). Donations are tax deductible to the extent permitted by law and will be recognized in the APT *Communiqué* as well as on the APT Web site.

# Special Events

## **APT Annual General Meeting**

11:00–11:45 a.m.

Monday, November 5

Caribe Hilton

After the Exhibit Grand Opening, join APT members for an update on APT's activities. This is a great opportunity to meet APT board members, hear reports from various committees and chapters, and find out how to get more involved in APT.

## **Lunch with Exhibitors— [SE3]**

Noon–12:45 p.m.

Monday, November 5

Caribe Hilton

*(This complimentary event is included with your registration, but a ticket is required. Guest tickets are not available for this event.)*

Join our exhibitors for a light lunch in an informal atmosphere of camaraderie and networking.

## **College of Fellows Reception—[SE4]**

7:00–8:00 p.m.

Monday, November 5

Convento de los Dominicos (Dominican Convent), National Gallery of Art

*(Registration Fee: \$45)*

**The Convento de los Dominicos, National Gallery of Art** is one of the oldest known structures in Puerto Rico. Built in 1523, it served as the basis for the subsequent construction of Santo Tomás de Aquino Church, presently San José Church (site of the College of Fellows Lecture). Located on the highest point of the islet of San Juan, this religious complex served as the focus for the development of the northern part of

the walled city of San Juan. Ca. 1835, with the secularization of the religious orders on the Island, the connection between the church and the convent was physically sealed when the Convent was converted to Spanish Military Barracks. Following the Spanish-American War of 1898, it was occupied by the United States Army until the 1970s. It was subsequently acquired by the Government of Puerto Rico and served as the second headquarters of the Institute of Puerto Rican Culture. Currently, the building has been converted into the National Gallery of Art.

Hors d'oeuvres will be served and a cash bar will be available. Dinner is on your own. Transportation will be provided.

## **APT Lunch and Setting the Agenda—[SE5]**

11:15 a.m.–12:45 p.m.

Tuesday, November 6

Caribe Hilton

*(This complimentary event is included with your registration, but a ticket is required. Guest tickets are not available for this event.)*

Meet new friends and let your voice be heard. APT has a long tradition of developing its strategic plans and identifying the future course of its programming with the help of its members. Join other APT members for a lively lunch and work session. Each table will be asked to develop ideas about the future of preservation technology and how those ideas can help guide APT's technical agenda. 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. The last Setting the Agenda lunches were held in Toronto (2002) and in Portland (2003).

# Special Events

Thanks to those lunches we created four Technical Committees and increased our international presence as seen with our Australia Chapter and our first off-shore conference here in San Juan. Imagine what we can do in the next five years!

## **APT Social and Awards Banquet and COF Installation—[SE6]**

6:00–11:00 p.m.

Tuesday, November 6

Museo de Arte de Puerto Rico

(Registration Fee: \$65)

*Transportation from and to the Caribe Hilton will be provided.*

**The Museo de Arte de San Juan** (San Juan Museum of Art) is a setting that permits the Museum's visitors to enjoy and appreciate the institution's historical and cultural treasures. It is, in and of itself, a work of art. The Museum has 130,000 square feet of modern facilities. The west wing is a Classical Revival structure built in the 1920s as a hospital. The east wing of the museum is a modern five-story structure. The museum's attractive buildings are complemented by an idyllic, five-acre botanical-sculpture garden. The garden includes a 67,000-gallon tiered pool with waterfalls, a promenade

*Did You Know?*

**You could be a winner simply by purchasing a ticket for the APT Endowment Fund Raffle. Tickets will be sold on site.**

dotted with gazebos and fragrant vines, and more than 100,000 specimens of bushes, orchids, trailing plants and native trees.

Space is limited.

### **Recognitions**

The College of Fellows honors those APT members who have provided valuable services to the preservation field and to APT. Each year at the APT Annual Conference the College of Fellows inducts up to six new members at the Awards Banquet. (The College of Fellows Jury is accepting nominations until July 1, 2007. Forms are available to [www.apti.org/about/COF-Call-2007.pdf](http://www.apti.org/about/COF-Call-2007.pdf).)

### **Awards Presentations**

APT will recognize this year's winners of the Publications Award, and President Barbara Campagna will give her Presidential Citations and present the Harley J. McKee Award, APT's highest honor. The APT Student Scholarships Committee will introduce this year's student scholars. (See a complete list on page 23.)

**The APT Endowment Fund** is the fundraising arm of the association. Endowment Fund committee members will be selling raffle tickets throughout the conference. All proceeds go directly to the Endowment Fund.

# Special Events

## **Golf Tournament—[SE7]**

10:00 a.m.—4:00 p.m.

**Sunday, November 4**

**Plantation Club Dorado Beach—  
Pineapple Course (formerly Hyatt  
Regency Cerromar Beach Resort)  
Dorado, Puerto Rico**

*(Ticket: \$135, which includes greens fees,  
cart, lunch and prizes.)*

Participants will be placed into foursomes based on experience. Teams will then compete for the lowest score using the “Captain’s Choice,” or scramble format. This will be a low-key competition among week-end golfers on a world-class golf course. Bring your cameras—there will be many photo opportunities!

The Pineapple course was designed to

be a resort-friendly course. Bunkers are shallow and the greens large. The back nine of Pineapple consists of four holes with an ocean view and a tough five-hole stretch culminating with a fantastic 18th hole just below the clubhouse terrace. The course was originally designed by Robert Trent Jones (1970) and then renovated in 2004 by the Raymond Floyd Group.

The Plantation Club Dorado Beach is about a 40-minute drive west from the Caribe Hilton. Round-trip transportation from the hotel (\$32) and golf club rentals (\$59) are available. Arrive at the course by 9:30 a.m. The tournament will start at 10:00 a.m.

Questions about the golf tournament?  
Contact Baird Smith at [bsmith@quinnevans.com](mailto:bsmith@quinnevans.com).

## *Iglesia San José (site of the COF Lecture)*



## **Traditional Lime and Brick-dust Mortars for Restoration—[WS 1]**

Schedule:

Day 1: 8:30 a.m.–3:00 p.m.

Saturday, November 3

Day 2: 8:30 a.m.–3:00 p.m.

Sunday, November 4

(Registration Fee: \$300)

Limited to 35 participants.

Transportation will be provided from and to the Caribe Hilton.

### **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 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

### **Workshop:**

This two-day workshop will explore the use of lime-based mortars and stuccos employing the addition of brick dust and other traditional Pozzolans. Topics to be covered will include their historical usage in the region, their characterization and performance, and their suitability as restoration materials. Classroom lectures, field visits, demonstrations and hands-on practicum will be included.

### **Morning lecture:**

Each day will begin with a lecture at the new rooftop Auditorium of La Escuela de Artes Plásticas. Built by the Spanish colonial government in the 1700s as the Charity Hospital or Hospital de la Concepción El Grande, the building, considered the most prominent civil project of the 18th century in Puerto Rico, has been adaptively reused as the extension to the School of Fine Arts.

### **Afternoon workshop:**

The San Juan National Historic Site's Lime Laboratory and Workshop, is located in the historic 18th century Polvorín or Powder House of Santa Elena on El Morro grounds, within the walled city of Old San Juan, Puerto Rico. In these unique facilities, the Master masons at the San Juan National Historic Site have researched and mastered traditional building techniques used by the Spaniards who built the fortifications beginning in the 16th century. These techniques are applied in the current restoration and preservation effort at the site. The masons at the San Juan National Historic Site, perhaps more appropriately called artisans, are leaders in the field of traditional lime masonry. Through years of extensive experimentation and materials testing, they are presently using mixes of lime and brick dust that predate cement. Spain's largest fortifications in the New World are being preserved for future generations through this work. This model program has been used to teach traditional masonry skills to other professionals involved in restoration efforts in Puerto Rico and around the nation.

### **Format:**

Classroom presentation and discussion with teaching aids and hands-on instruction.

## Day 1—Morning

Lecture at the new rooftop Auditorium of the Escuela de Artes Plásticas  
*Introduction to Traditional Uses of Lime and Brick-dust Mortars*

- Historical technology
- Local traditional technologies
- Properties of lime and brick dust mortar systems

## Day 1—Afternoon

Site visits

- Sites including the 16th–17th century fortifications of El Morro and Fort San Cristóbal, as well as 16th century Iglesia San José will be visited to examine historic and contemporary examples of mortar technology.

## Day 2—Morning

Lecture at Escuela de Artes Plásticas  
*Traditional Uses and Restoration Applications*

- Case Studies

## Day 2—Afternoon

Hands-on Workshop at the Masonry Workshop in the Polvorín de Santa Elena at El Morro

- Materials and methods of various formulations using lime and Pozzolanic additives will be prepared and applied under the tutelage of Edwin Colón and the master masons of the San Juan National Historic Site (NPS San Juan).

## Preservation of Wood in Historic Structures—Architecture, Engineering and Craft—[WS2]

Day 1: 8:30 a.m.–3:00 p.m.

Saturday, November 3

Day 2: 8:30 a.m.–3:00 p.m.

Sunday, November 4

(Registration Fee: \$300)

Limited to 35 participants.

Transportation will be provided from and to the Caribe Hilton.

### Presenters:

Ron Anthony—Wood Scientist, Anthony & Associates, Inc., Fort Collins, CO

Annabelle Radcliffe-Trenner—Principal, Historic Building Architects, LLC, Trenton, NJ

José (Pepe) Izquierdo-Encarnación, MCE, FACI, PE—Principal, Porticus, Puerto Rico

Francisco Gutierrez—Architect and Woodworker, Puerto Rico

### Workshop:

Participants will go through the process of addressing preservation issues for wood in historic structures—first, historical and material considerations from the architect’s and owner’s perspectives, then safety and codes considerations from the engineer’s perspective, and finally the craftsman’s repair considerations. In each case, the common thread between disciplines is the wood materials. Participants will gain a better understanding of how the various professions can interact from conception through completion to have a successful preservation project that has wood as a principle component.

With hands-on activity at the Henry Klumb House in San Juan, participants can explore the types of questions and issues that different professionals have with preserving wood structures, e.g., historic context, construction methodology, wood inspection, repair vs. replacement, and woodworking.

### **Format:**

Classroom presentations, panel discussion, and field exercise at the site.

### **Day One**

- Wood in the context of historic preservation
- Architect's perspective
- Engineering issues
- Addressing the questions raised by the architect and engineer during a project

### **Day Two**

- Repair considerations
- Panel discussion
- Break-out into architecture and repair groups

### **The Klumb House**

Heinrich (Henry) Klumb (1905-1984) was born in Cologne, Germany, where he was exposed to the ideals of the European Modern Movement, such as social improvement, rational construction and simple forms. His migration to the United States in 1927 to study with Frank Lloyd Wright gave him significant tools for implementing his architectural ideals. After five years of study with Wright, Klumb involved himself in projects that focused on designs which optimized a merger of traditional and modern styles, with a focus on simple living in harmony with the natural environment. In 1944 he moved to Puerto Rico where he did his most famous work.

His designs include many facets of the University of Puerto Rico campuses at Rio Piedras and Mayagüez.

The home, which Henry Klumb purchased in 1947, was a typical hacienda built in the style of the mid-19th century. Situated on about seven acres near the town of Rio Piedras, it represented a traditional earlier approach to architecture in a tropical environment: a home with wide verandas whose main living area was elevated above the ground. The hacienda was remodeled by subtraction, not addition and, as with so much of Klumb's work, it synthesizes inside and outside, modern and traditional. The removal and re-use of walls, doors and windows enabled Klumb to create a continuous, fluid, sustainable living space that flowed into the natural environment without clear boundaries. The simplicity and transparency of the final home, combined with innovative touches such as the revolving table and surrounding garden "wall," create a memorable structure that stands as a monument to Henry Klumb's philosophy of organic architecture.

The house was purchased by the University of Puerto Rico after the Klumbs died in a tragic car accident in 1984. Since that time, the original gardener, Don Agustin, has maintained the landscape. However, Hurricane Hugo, other tropical storms, and termites have taken their toll on the building. Currently, it still maintains its structural integrity but in the harsh tropical environment it is rapidly deteriorating. The APT wood workshop will be the first step that will allow this important architectural jewel to remain available to future generations.

## **Architectural Conservation—[WS3]**

Day 1: 8:30 a.m.–3:00 p.m.

Saturday, November 3

Day 2: 8:30 a.m.–3:00 p.m.

Sunday, November 4

(Registration Fee: \$100)

Limited to 18 participants.

Transportation will be provided from and to the Caribe Hilton.

### **Presenter:**

Judy Jacob—Senior Conservator for the National Park Service; Professional Associate of American Institute for Conservation of Historic and Artistic Works (AIC), New York, NY

Other AIC-member architectural conservators

### **Workshop:**

This workshop will provide participants with the opportunity to work alongside conservators in carrying out conservation treatments on historic plaques in Old San Juan. We are preparing to work on both marble and bronze plaques, and in both interior and exterior settings. Participants

will work in small groups, with three participants per conservator. The workshop will commence in the field: plaque conditions will be examined and treatment options will be discussed. Treatments will then be carried out. Depending upon the extent of the work, one or more plaques will be treated by each group. Because treatments have to be completed in two days (including discussion, set-up, clean-up, and report time), treatments will be straightforward (primarily cleaning, waxing bronze, and inpainting discolored fills). Following treatment, on the second day, all the conservators and participants will gather together to discuss and write treatment reports which will then be given to plaque owners/stewards.

### **Format:**

Site and classroom discussions and work.

### **Day One**

- On-site discussions of conditions and treatment options for plaques; execution of treatments.

### **Day Two**

- Completion of treatments.
- Preparation of treatment reports, in the classroom.

*San Juan Cemetery*



# Field Sessions

## **Old San Juan City Tour and VIP Tour of La Fortaleza Governor's Mansion—[FS 1]**

8:00 a.m.–1:30 p.m.

Saturday, November 3

(Registration Fee: \$35)

Limited to 30 participants

Continental breakfast at the hotel is followed by a bus and walking tour. You will be walking up and down hilly narrow streets within Old San Juan and should be in good physical condition for walking.

8:00 a.m.–11:00 a.m.

Old San Juan City Tour

This bus and walking tour of Old San Juan will give you the opportunity to enjoy the imposing Spanish-colonial fortifications, plazas and parks that make the city one of the best preserved in the Americas. You will visit the institutional and residential buildings inspired by the neoclassic style, including patios and gardens, as you stroll and enjoy the small-scale character of the most vibrant historic center in the Caribbean. The tour will be led by Jorge Rigau, FAIA, scholar and author, founder

and former dean of Polytechnic University's School of Architecture.

11:00 a.m.–1:30 p.m.

Tour of La Fortaleza Governor's Mansion Built 1533–1540 as a military fort, La Fortaleza, also known as the Palacio de Santa Catalina, is the oldest Executive Mansion in continuous use in the Western Hemisphere. The first level is a typical medieval construction with two observation towers facing the San Juan Bay. The second and third levels were part of 1846 restorations. El Conde de Mirasol, the Governor at that time, changed the military fortress look to a more European palatial look with French mirrors and consoles, but with the inclusion of Puerto Rican-style furniture. The Kennedy and Queen's rooms have beautiful views of the sunken garden, The Walls of San Juan, and, of course, San Juan Bay.

You will have the unique opportunity to meet the First Lady of Puerto Rico, Mrs. Luisa Gándara, and learn first-hand about her educational programs and her work with the preservation of this World Heritage Site.

*The Governor's Mansion, La Fortaleza de Santa Catalina*



# Field Sessions

## **Old San Juan Forts Tour—[FS2]**

At your leisure, Sunday, November 4, or at anytime during the conference  
(Registration Fee: no charge)

This self-guided tour takes you through the forts of Old San Juan. APT will provide an informational packet which will include transportation options, directions to each fort, and guides to the forts.

## **Architectural Tour of the Historic Center of Ponce—[FS3]**

8:00 a.m.—4:00 p.m.

Wednesday, November 7  
(Registration Fee: \$35)

Continental breakfast at the hotel is followed by a 75-minute bus ride to Ponce. This tour will include a lot of walking. Lunch is included.

Ponce is Puerto Rico's second largest city and is known as "*La Perla del Sur*" (Pearl of the South) and "*La Ciudad de los Leones*" (City of Lions). Ponce 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 five hundred 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.

For more information about Ponce, visit <http://welcome.topuertorico.org/city/ponce.shtml>

### *Historic Fire Station, Ponce*



## **Las Cabezas de San Juan Nature Reserve and Historic Lighthouse—[FS4]**

8:00 a.m.—4:00 p.m.

Wednesday, November 7

*(Registration Fee: \$35)*

Continental breakfast at the hotel is followed by a 60-minute bus ride to Fajardo. This tour will include a lot of walking. Lunch is included.

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 acquired Las Cabezas de San Juan Nature Reserve—321 acres of land on the northeastern tip of Puerto Rico. The site’s name, Las Cabezas de San Juan, refers to the three head-like promontories that extend from the mainland into the Atlantic Ocean. The Trust rescued this site of immense ecological importance from a tourist development proposed for the area.

Designated a Nature Reserve in 1986 by the Department of Natural Resources and the Puerto Rico Planning Board, this area is characterized by its Laguna Grande—one of three water bodies with year-round bioluminescence known in Puerto Rico—and the fully restored 19th century imposing lighthouse on the highest part of the Reserve that has become one of the main attractions for visitors.

Since pre-Columbian times, this location has been recognized for its strategic importance. In 1880, the Spaniards built an imposing neoclassic lighthouse at this site to guide ships through the Vieques and Culebra passages. The lighthouse, known

as ‘El Faro de Fajardo’, is the second oldest in a system of lighthouses built in Puerto Rico by the Spanish colonial government. In continuous operation since 1882, the building is presently owned by the Trust. Exhibits in the Lighthouse’s Nature Center describe the natural phenomena of the Reserve while the rooftop Observation Deck offers a majestic view of El Yunque, the Cordillera Nature Reserve and, on a clear day, islands as far away as Tortola.

As part of the restoration efforts began in 1989, the Trust conducted extensive research to guarantee the authenticity of all historic aspects of the lighthouse. Using 19th century techniques, the Trust restored the original windows, doors, structural and decorative woodwork as well as original finishing and colors.

## **Hacienda Buena Vista Coffee Plantation—[FS5]**

8:00 a.m.—4:00 p.m.

Wednesday, November 7

*(Registration Fee: \$35)*

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. Lunch is included.

Hacienda Buena Vista is located in a mountainous area between Adjuntas and Ponce, where the Canas River flows. This natural area is dominated by a sub-tropical humid forest rich in plant and animal life.

# Field Sessions

It was purchased in 1833 after Spaniard Salvador de Vives left the newly independent Venezuela and settled in Puerto Rico. He bought 468 acres (482 *cuerdas*) along a waterfall on the Canas River and began to build what would become one of the most important haciendas on the southern part of the Island. It started out as a small cash-crop farm using simple horse-powered machinery.

In 1847, Carlos Vives, the son of Don Salvador, decided to expand the hacienda's operations by using the water power of the Canas River. In 1853 Carlos expanded his water-powered system. He purchased a reaction turbine, patented in the United States by Whitelaw and Stirrat of Scotland, and cast by the West Point Foundry in New York. This fully restored and working reaction turbine is the only one of its type that survives today.

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 donated by the Vives family and acquired from other sources. Today, the manor house serves as both museum and exhibition center.

## **Museo de Arte de Puerto Rico (Museum of Art of Puerto Rico)— [FS6]**

9:00 a.m.—Noon

Wednesday, November 7

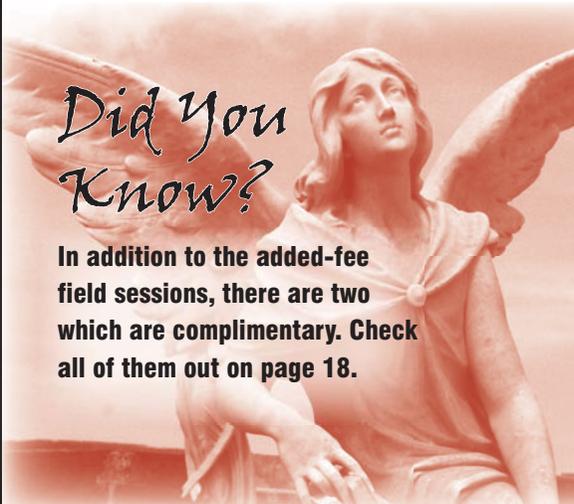
*(Registration Fee: no charge, but a ticket is required.)*

Transportation and lunch are on your own.

Following the welcome reception and refreshments hosted by the museum, you will enjoy a docent-led tour (in English).

Since it 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.



*Did You Know?*

**In addition to the added-fee field sessions, there are two which are complimentary. Check all of them out on page 18.**

# Sponsors and Exhibitors

The following companies are generously supporting the APT conference. (Accurate as of late May 2007.)

## Sponsors to date

### Conference Underwriter



**The Getty Foundation**



(Master Products Corp., Master Paints & Chemical

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### Conference Benefactor



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### Exhibitors to date

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National Center for Preservation Technology  
and Training (NCPTT)  
Plan B Engineering  
Restore Media, LLC  
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W.W. Norton & Company

# Student Scholarship Recipients

Amelia Bagnall  
*Conservation Assessment and Digital Documentation of Shangri La's Damascus Room*  
Winterthur/University of Delaware Program in Art Conservation  
Williamsburg, VA, USA

Diannett Bataille  
*Por un Nuevo San Juan*  
Universidad Politecnica de Puerto Rico  
Carolina, PR, USA

Valentina Cristini  
*Valencia ciudad vella: huellas de artesanía constructiva en fabricas tradicionales de ladrillo*  
Universidad Politecnica de Valencia (Spain)  
Torrent, Valencia, Spain

Amila Ferron  
*The Consolidation of Earthen Surface Finishes: A Study of Disaggregating Plasters at Mesa Verde National Park*  
University of Pennsylvania  
Philadelphia, PA, USA

Tenaya Hills  
*Revitalizing Hacienda San Jose: An Adaptive Reuse Plan for an 18th Century Mexican Agave Farm*  
University of Texas at Austin  
Austin, TX, USA

Melissa Huber  
*Saving Face: Applications of Surface Profilometry in Architectural Conservation*  
University of Texas at Austin  
Austin, TX, USA

Kristina Kupferschmid  
*PIXE: Trace Element Analysis of Historic Materials*  
University of Texas at Austin  
Austin, TX, USA

Lurita McIntosh  
*Ethyl Silicate as an Alternative Binder for Grout and Mortar for use with American Sandstones*  
Columbia University  
New York, NY, USA

Rosalía Mosqueda Avila  
*Corredor Insurgentes-Tlapan. Reutilización de inmuebles con valor patrimonial en el centro histórico de Tlapan*  
Universidad Autónoma Metropolitana  
Distrito Federal, Mexico

Tomás Roselló Jaunzarás  
*Estudio de los sistemas constructivos y daños de una casa de pueblo en Torrent (Valencia)*  
Universidad Politecnica de Valencia (Spain)  
Torrent, Valencia, Spain

Joseph Rothwell  
*The Quest for Lime: An Analysis of Traditional Techniques Used for the Production of Lime*  
Savannah College of Art and Design  
Savannah, GA, USA

Ronald Roy  
*Wood Windows: A Contemporary Solution—Energy Efficient, Environmentally Friendly and Cost-Effective*  
Carleton University, Heritage Conservation  
Ottawa, ON, Canada

Paul Terpeluk  
*Copper Roofing Technology—Historical Evolution and Analysis*  
Savannah College of Art and Design  
Savannah, GA, USA

Aliva Turner  
*The Effects of Building Exposure on Decay*  
University of Pennsylvania  
Philadelphia, PA, USA

Lauren Vienne  
*Cob: A Traditional Building Practice in Modern Day Use*  
University of Texas at Austin  
Austin, TX, USA

Ege Yildirim  
*Adapting Traditional Principles of Urban Settlement in Anatolia*  
Ankara University, Institute of Social Sciences  
Ankara, Turkey

## Professional Travel Grants

The Getty Foundation is funding professional travel grants for attendees from Latin America and the Caribbean. Applications are available under “Paper Sessions” at <http://www.apti.org/conferences/2007/index.cfm>.

These competitive grants range from \$1,500 to \$2,000 and cover airfare, lodging, and a small per diem. Grant applications are available on line and must be submitted with your registration by August 31, 2007.

## Accommodations

Conference headquarters is the beautiful Caribe Hilton. One of the most luxurious resorts in Puerto Rico, the Caribe Hilton is set on an exclusive peninsula. Made up of 17 acres of lush tropical gardens, this resort is ideally situated between the historic Old San Juan and the exciting Condado area, offering a secluded beach, lavish accommodations and amenities tailored to families, couples and business travellers alike.

## To Make Your Reservations

Caribe Hilton  
Los Rosales Street  
San Geronimo Grounds  
San Juan, Puerto Rico 00901  
Hilton toll free line—877/667-7210  
Hotel direct line— 787/721-0303

## Rates

A significantly reduced rate of \$150\*single/\$160 double is available to conference attendees for November 1-8, 2007. Mention that you are attending the APT Conference to receive the reduced rate. The cut off date for reservations at this rate is Wednesday, October 11, 2007, based on availability. If the room block fills before October 11, rooms may not be available at the discounted conference rate.

You can also book a room by clicking on “Book a Room” on line at [www.hiltoncaribbean.com/sanjuan](http://www.hiltoncaribbean.com/sanjuan). The Group/Convention Code is APTA07. The conference rate is only available November 1-8 so if you enter dates outside that timeframe, you won’t get the reduced rate. Call the hotel to make a reservation that includes days outside the official conference dates. If rooms are available, the rates will be honored three days before and three days after the conference.

\*In addition to the room rate, the hotel

charges nine percent (9%) government tax and ten percent (10%) resort fee, as well as \$5.00 occupancy tax per person per night, as well as \$4.50 per person (round trip) for bellman gratuities and \$.50 per day per person for maid gratuities. Total room cost for one person in one room is \$188.50 for the first night and \$184 for each additional night.

## Getting to San Juan and the Hotel

San Juan has direct-flight access from airports in the U.S., Europe and Latin America. You won’t have to worry about any puddle-jumping biplanes or long waits to get there. You are encouraged to contact your airline directly to confirm schedules or contact the Tourist Information Center at the Luis Muñoz Marín International Airport at 800/866-5829.

## From the Airport to the Hotel

### Taxi Cab Services

Official Tourism Company-sponsored taxis on the Island are clean, clearly identifiable and reliable. Look for the white taxis with the official logo and the *Taxi Turístico* on the front doors.



Did You Know?

**The Student Scholarship winners attend the conference at no charge. Your donation to the Student Scholarship Auction helps underwrite that expense.**

# Your Visit to San Juan

## Weather

San Juan in November is hot and humid, but evenings can get cool so bring a jacket for evening events that are outdoors. The average high temperature is 86° F/30° C and the low is 75° F/24° C with very little precipitation, but lots of humidity.

San Juan hotels tend to run their air conditioning very cold. Bring a sweater for sessions and lunches.

## Dress Code

Business casual for all events, but some attendees will wear semi-formal (dresses, jackets) for the College of Fellows Lecture and Reception and the Awards Banquet. Shorts and t-shirts are not appropriate attire for any of the official events at APT.

Wear comfortable shoes and plan on doing lots of walking up and down hilly streets within Old San Juan! Shuttle buses will be able to drop attendees close to most of the venues for evening activities, but you will need to walk to explore Old San Juan on your own. We will have shuttle buses leaving from a central location on the edge of Old San Juan every evening on the half hour until 11:00 p.m. to return you to the Caribe Hilton.

## Accessibility

There is very limited handicap access within the historic city. The Caribe Hilton is fully accessible.

## Puerto Rico On Your Own

You, your family and/or your guests can plan day tours before, 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 in advance\*, contact the Caribe Hilton's destination management company, which staffs an on-site Tour Desk for your use before and during your visit:

Travel Services  
787/982-1200  
info@destinationpuertorico.com  
[www.destinationpuertorico.com](http://www.destinationpuertorico.com)

The Tour Desk is open 8:00 a.m.–  
9:00 p.m., (Atlantic Time) 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 (contact the Travel Services for additional tours and information)

\*Note: Many of the tours are subject to minimums in order to operate. Should you register for a tour that doesn't reach the minimum, your money will be refunded, you can re-schedule your tour, or you can register for another one.

In addition, there are maximum capacities and tours can fill up early. If you plan to take a tour, it's recommended that you schedule it with the Tour Desk at least two days in advance, but last-minute tours can be booked based on availability.

# Other Events of Interest

## APT New Member Gathering

Late evening  
Sunday, November 4  
Caribe Hilton

As a new APT member, get to know the board on a personal level. All members who have joined APT since last year's conference are invited to join the APT Board of Directors for a social hour (Dutch treat) after the opening reception. In addition to those who joined APT in the last year, all first-time non-member conference registrants get a complimentary one-year APT membership with their conference registration. As a new member you're encouraged to participate in this social event.

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## Student Gathering

4:00–5:30 p.m.  
Monday, November 5  
Caribe Hilton

Students are invited to gather informally to meet each other and the APT leadership.

## NCPTT

The Preservation Technology & Training Board of the National Center for Preservation Technology and Training (NCPTT) Semiannual Board Meeting  
Day 1: 9:00 a.m.–5:00 p.m.  
Friday, November 2  
Day 2: 9:00 a.m.–Noon  
Saturday, November 3  
Caribe Hilton

All sessions are open to the public. There is no cost to attend. A detailed agenda will be posted at [www.ncptt.nps.gov/boardreport](http://www.ncptt.nps.gov/boardreport) two weeks prior to the meeting. For more information, contact Jeff Guin at 318/356-7444.

## Chapters Mixer

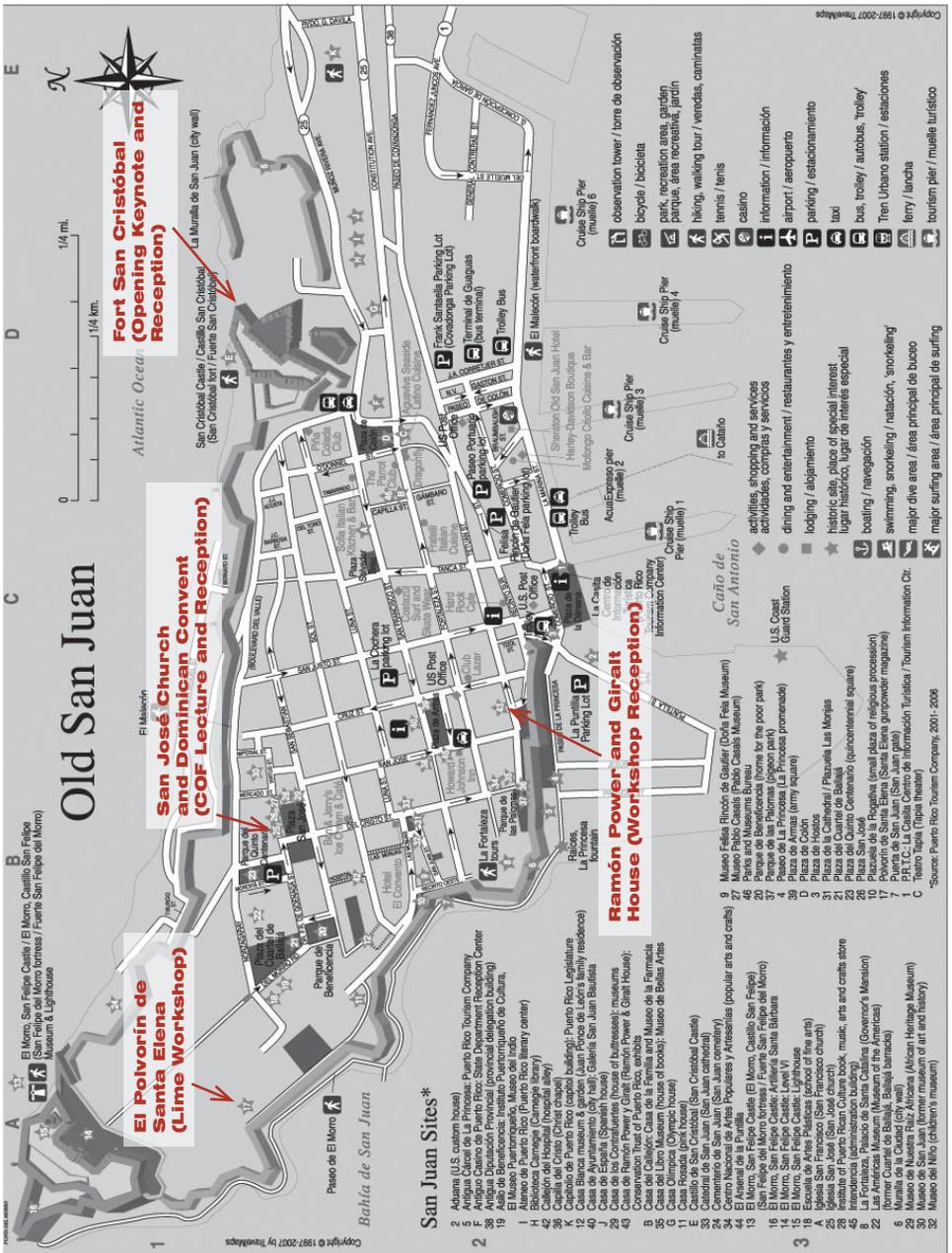
8:00 p.m.  
Monday, November 5  
Hotel El Convento

All APT Chapter members are invited to gather for an evening out after the COF Reception. You'll meet in the lounge at El Convento Hotel, a former Carmelite convent that is now a luxury hotel in the heart of Old San Juan.

*Casa Klumb, Rio Piedras (site of the Wood Workshop)*



# Map of Old San Juan



\* Caribe Hilton Hotel

## Old San Juan

**El Polvorin de Santa Elena (Lime Workshop)**

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

**Fort San Cristóbal (Opening Keynote and Reception)**

**Ramón Power and Giralt House (Workshop Reception)**

### San Juan Sites\*

- 2 Adjuna (U.S. custom house)
- 3 Antiguo Centro de La Princesa: Puerto Rico Tourism Company
- 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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# Registration Information

## Conference Registration

Conference registration will only be accepted on line with a credit card payment at [www.apti.org](http://www.apti.org). See page 29 for fees. If you have questions about the registration process, contact APT Conference Registrar Kim McDonald at [kim@apti.org](mailto:kim@apti.org) or 217/529-9039.

## Early Rate

On-line registration must be completed on or before midnight, August 31, 2007, to qualify for the early registration rate. If you are not a member, please pay the non-member rate. APT Corporate and Patron members may use the member rate to register employees affiliated with their memberships. The non-member rate includes a one-year membership in APT.

## Cancellations

All notices of cancellations must be received via email at [kim@apti.org](mailto:kim@apti.org). Cancellations received before October 6 will be charged a \$25 administration fee. Cancellations received October 6–19 will be charged a \$100 administration fee. Cancellations received October 20 and later

will not be refunded. Registrations can be transferred if you are unable to attend. No-shows will be billed in full.

## Language

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

## AIA CES Hours

APT is an AIA Registered CES provider. Each paper session is 2.0 hours, each keynote session is 1.0 hour, and field sessions are between 5.5 and 8.0 hours.



## Professional Travel Grants

The Getty Foundation is funding professional travel grants for attendees from Latin America and the Caribbean. See page 23 for more details.

## Registration Questions?

Kim McDonald at [kim@apti.org](mailto:kim@apti.org) or 217/529-9039

*Old San Juan*



# Registration Information

**APT is accepting only on-line registrations at [www.apti.org](http://www.apti.org).**

**Direct registration questions to  
Kim McDonald at [kim@apti.org](mailto:kim@apti.org) or 217/529-9039  
All rates are in US dollars**

## **Conference Registration Fees, November 4-7**

Member, on or before August 31 .....	\$400
Non-member, on or before August 31 .....	\$500
Member, September 1 or later .....	\$500
Non-member, September 1 or later .....	\$600
Student .....	\$100
Speaker/Session Chair/APT Board Member .....	\$300
Single Day Rate (either Monday or Tuesday) .....	\$250
Puerto Rican Residents .....	\$250
Guest .....	n/c

Guests of conference registrants must purchase special event tickets.

## **Workshop Registration Fees, November 3-4**

All fees include the Workshop Reception on Saturday evening.

Traditional Lime and Brick-dust Mortars for Restoration [WS1] .....	\$300
Preservation of Wood in Historic Structures [WS2] .....	\$300
Architectural Conservation [WS3] .....	\$100

## **Field Session Registration Fees**

Register early; space is limited.

### **Saturday, November 3**

Old San Juan and La Fortaleza [FS1] .....	\$35
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### **Sunday, November 4**

Forts (self-guided) [FS2] .....	n/c
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### **Wednesday, November 7**

Architectural Tour of the Historic Center of Ponce [FS3] .....	\$35
La Cabezas de San Juan Nature Reserve and Historic Lighthouse [FS4] .....	\$35
Hacienda Buena Vista Coffee Plantation [FS5] .....	\$35
The Museo de Arte de Puerto Rico [FS6] .....	n/c

**Register on line at [www.apti.org](http://www.apti.org)**

# Registration Information

## Special Event Tickets

*\*Event is complimentary for conference registrants, but a ticket is required*

Workshop Reception for workshop registrants* .....	n/c
Workshop Reception for guests and non-workshop registrants .....	\$35
Saturday evening at Casa Ramon Power and Giralt	
Keynote Speaker and Opening Reception* .....	n/c
Guest Ticket to Keynote Speaker and Opening Reception .....	\$35
Sunday evening at Fort San Cristóbal	
Lunch with Exhibitors* .....	n/c
Guest tickets are not available for this event.	
Monday at the Caribe Hilton	
College of Fellows Keynote Lecture* .....	n/c
Monday evening at San José Church	
College of Fellows Reception* .....	\$45
Monday night at Dominican Convent, National Gallery	
APT's Setting the Agenda Lunch * .....	n/c
Guest tickets are not available for this event.	
Tuesday at the Caribe Hilton	
Social and Awards Banquet and COF Installation .....	\$60
Tuesday night	
Golf Tournament.....	\$135
Sunday at Plantation Club Dorado Beach	

**Register on line at [www.apti.org](http://www.apti.org)**

# Agenda at a Glance

## Saturday, November 3

8:30 a.m.–1:30 p.m.	Old San Juan City Tour and VIP Tour of La Fortaleza Governors' Mansion
8:30 a.m.–3:00 p.m.	Workshops, Day 1 <ul style="list-style-type: none"><li>• Traditional Lime and Brick-dust Mortars for Restoration</li><li>• Preservation of Wood in Historic Structures at Henry Klumb House</li><li>• Architectural Conservation</li></ul>
6:00–8:00 p.m.	Workshop Reception
Evening	Dinner on own
11:00 p.m.	Last shuttle bus leaves from Old San Juan

## Sunday, November 4

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 and Opening Reception and Student Scholarship Auction
Evening	Dinner on Own
Late evening	New Member Gathering
11:00 p.m.	Last shuttle bus leaves from Old San Juan

## Monday, November 5

8:00–10:00 a.m.	Paper Sessions
10:00 a.m.–4:00 p.m.	Bookstore and Exhibits
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
7:00–8:00 p.m.	College of Fellows Reception
8:00 p.m.	Chapters Mixer
Evening	Dinner on Own
11:00 p.m.	Last shuttle bus leaves from Old San Juan

(continued...)

# Agenda at a Glance

## Tuesday, November 6

8:00 a.m.–4:00 p.m.	Bookstore and Exhibits
8:00–9:00 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
3:15–5:00 p.m.	APT Technical Committee Meetings and Free Time
4:00–6:00 p.m.	APT Board of Directors Meeting
6:00–11:00 p.m.	APT Social and Awards Banquet
11:00 p.m.	Last shuttle bus leaves from Old San Juan

## Wednesday, November 7

8:30 a.m.–4:30 p.m.	Field Sessions— Architectural Tour of the Historic Center of Ponce Hacienda Buena Vista Coffee Plantation Tour La Cabezas de San Juan Nature Reserve and Lighthouse Tour
8:30 a.m.–Noon	The Museo de Arte de Puerto Rico

### *Old San Juan from San Cristóbal Ramparts*



**Photos by Kent Diebolt**



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

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