Layers across Time—Preserving a Diverse Western Heritage

APT Denver 2010
October 6-9, 2010
Sheraton Denver Downtown Hotel
Denver, Colorado, USA
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:

**APT Victoria 2011**
The Fairmont Empress
October 11–16, 2011
Victoria, British Columbia, Canada

**APT Charleston 2012**
Francis Marion Hotel
September 30–October 3, 2012
Charleston, South Carolina, USA

### APT Denver 2010 LOCAL CONFERENCE COMMITTEE

**Natalie Feinberg Lopez, Built Environment Evolution (BEE)**
Conference Committee Co-Chair; Workshops Committee Co-Chair

**Melanie Short, SLATERPAULL Architects**
Conference Committee Co-Chair; Field Sessions Committee Co-Chair; Special Events Committee Chair

**Ron Anthony, Anthony & Associates, Inc.**
Conference Committee Vice Chair; Program Committee Chair

**Nan Anderson, Andrews & Anderson Architects**
Fundraising Committee Co-Chair

**Jenny Arndt, JVA Inc.**
Field Sessions Committee Co-Chair

**John Feinberg, The Collaborative, Inc.**
Fundraising Committee Co-Chair

**Christy Fockler, U S General Services Administration**
Outreach Committee Chair

**Anne McCleave, State Historical Fund, Colorado Historical Society**
Publications/Marketing Committee Chair

**Dave Woodham, Atkinson-Noland & Associates**
Workshops Committee Co-Chair

**Gretchen Pfaehler, EwingCole**
APT Conferences Committee Co-Chair

**John Diodati, Fournier Gersovitz Moss and Associate Architects**
APT Conferences Committee Co-Chair

**Tim Crowe, Wiss, Janney, Elstner Associates, Inc.**
APT Training and Education Committee Co-Chair

**Carl Elefante, Quinn Evans Architects**
APT Training and Education Committee Co-Chair

**Paul Gaudette, Wiss, Janney, Elstner Associates, Inc.**
APT Fellow

**Jill Gotthelf, Walter Sedovic Architects**
APT Technical Committee on Sustainable Preservation Co-Chair

**Harry Hunderman, Wiss, Janney, Elstner Associates, Inc.**
APT-AIA HRC Liaison and APT Fellow

**Deborah Slaton, Wiss, Janney, Elstner Associates, Inc**
APT Fellow

**Rachel Will, Wiss, Janney, Elstner Associates, Inc**
APT Member
GOING GREEN
APT has made choices that reduce the environmental impact of this Conference. Please do your part to support APT’s efforts, including returning your name badge holder for future use. Drop it in the box at the APT Registration and Information Desk.

In an attempt to reduce paper distributed on site, you will find Conference information available for download at the APT Cyber Café (see page 25) and on line at www.aptconference.org.

CONTINUING EDUCATION CREDITS
APT is an approved provider for the following professional continuing education. Participation (CE) forms are available for each discipline at the APT Registration and Information Desk. Listings for workshops, field sessions, keynote sessions and paper sessions include a key to the number of contact hours available for each discipline.

American Institute of Architects learning units (AIA LUs)
RCEP professional development hours (RCEP PDHs)
Ontario Association of Architects CORE learning hours (OAA CORE)

APT STUDENT SCHOLARSHIPS AUCTION
Silent Auction—in Exhibit Hall (page 10)
Live Auction—at Awards Banquet (page 18)

TRANSPORTATION
We will use a combination of walking, the free 16th Street MallRide Shuttle and charter buses to reach off-site venues. Ambassadors will be available to direct you or accompany groups to each venue. If you are unable to walk, please inform the APT Registration Desk.

APT Billiards Tournament
Saturday night at the Wynkoop Brewery
APT is hosting a billiards tournament at this year’s Social. Hosted by Conference Co-Chair Melanie Short this tournament is for fun—and bragging rights! Register for the tournament at the APT Registration Desk in advance or add your name to the list on site. This is a fun-based (not skill-based) tournament so join in just for entertainment! (See page 26 for details.)
# Agenda at a Glance

All events are at the Sheraton Denver Downtown Hotel unless otherwise noted.

## Tuesday, October 5

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30 am–5:00 pm</td>
<td>GSA Regional Preservation Officers Meeting, Day 1</td>
<td>Columbine</td>
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<tr>
<td>3:00–6:00 pm</td>
<td>APT Registration and Information Desk opens</td>
<td>Majestic Foyer</td>
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<td>Workshop: Envelope Performance Testing, Modeling and Monitoring</td>
<td>Central Presbyterian Church</td>
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<tr>
<td>8:30 am–4:30 pm</td>
<td>GSA Regional Preservation Officers Meeting, Day 2</td>
<td>Columbine</td>
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<tr>
<td>1:00–9:00 pm</td>
<td>APT Board of Directors Meeting</td>
<td>Governor’s Square #14</td>
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<tr>
<td>4:30–6:00 pm</td>
<td>Workshop Reception</td>
<td>Majestic Ballroom</td>
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<tr>
<td>6:00 pm</td>
<td>Downtown Denver Dine Around</td>
<td>Meet in Majestic Foyer</td>
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## Thursday, October 7

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<td>Field Session: Rocky Mountain National Park</td>
<td>Hotel Lobby</td>
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<td>Field Session: Mining Town Tour</td>
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<td>Field Session: Fort Collins</td>
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<td>Conference Opening Speaker</td>
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<td>Majestic Ballroom</td>
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<tr>
<td>5:00–8:30 pm</td>
<td>Opening Gala—Exhibits and Dinner</td>
<td>Majestic Ballroom</td>
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<tr>
<td>8:45 pm</td>
<td>Chapters Mixer</td>
<td>Lime Restaurant</td>
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Friday, October 8

7:00 am–6:00 pm  APT Registration and Information Desk  Majestic Foyer
7:00–8:00 am  APT Technical Committee on Preservation Engineering  Beverly
7:00–8:00 am  APT Publications Committee  Capitol
7:00–8:00 am  APT Victoria 2011 Local Conference Committee  Biltmore
7:45 am–4:00 pm  Exhibits Open  Majestic Ballroom
7:45–10:15 am  Continental Breakfast in Exhibit Hall  Majestic Ballroom
8:15–9:45 am  Paper Sessions  Various Rooms
9:45–10:15 am  Break in Exhibit Hall  Majestic Ballroom
10:15–11:45 am  Paper Sessions  Various Rooms
11:45 am–4:00 pm  Lunch With Exhibitors and Silent Auction  Majestic Ballroom
12:45–5:00 pm  Field Session: Denver Federal Center  Hotel Lobby
1:00–4:00 pm  Field Session: Denver’s Civic Center Historic District  Hotel Lobby
1:00–4:00 pm  Field Session: Downtown Denver Federal District  Hotel Lobby
1:15–3:15 pm  APT Latin American Chapter/PROTERRA Roundtable Discussion  Terrace
3:30–5:30 pm  UCD Open House  UCD campus
4:15–5:30 pm  APT Technical Committee on Preservation Engineering  Beverly
4:15–5:30 pm  APT Technical Committee on Modern Heritage  Columbine
4:15–5:30 pm  APT Technical Committee on Sustainable Preservation  Denver
4:15–5:30 pm  APT Training and Education Committee  Aspen Board Room
4:15–5:30 pm  APT Student Scholarships and Outreach Committee  Vail
4:15–5:30 pm  APT Chapters Committee  Terrace
4:15–5:30 pm  APT Publications Committee  Capitol
4:15–5:30 pm  APT Charleston 2012  Biltmore
4:15–5:45 pm  APT Conference Sustainability Track Presenters Meeting  Euclid Hall Bar and Kitchen
6:00–7:00 pm  College of Fellows Keynote Lecture  St Cajetan’s Church
7:00–11:00 pm  APT Social  Wynkoop Brewery

Saturday, October 9

6:30 am–4:00 pm  APT Registration and Information Desk  Majestic Foyer
7:00–8:00 am  Chapters & New Members Breakfast  Majestic Ballroom
7:00–8:00 am  Coffee  Outside meeting rooms
8:00–9:30 am  Paper Sessions  Various Rooms
10:00–11:30 am  Paper Sessions  Various Rooms
11:45 am–1:15 pm  Lunch and Annual General Meeting  Majestic Ballroom
1:30–3:30 pm  Paper Sessions  Various Rooms
3:45–5:00 pm  APT Board of Directors meeting #2  Spruce
6:00–11:00 pm  APT Social  Wynkoop Brewery

Sunday, October 10

7:30–10:30 am  College of Fellows Business Meeting  Columbine
**Conference Schedule**

**Tuesday, October 5**

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**Day 1: Foundations and Soils in Historic Preservation [WS1]**

- **Ticket:** Required
- **Format:** Lecture and discussion
- **Food:** Continental breakfast and lunch
- **Dress Code:** Casual

**Workshop Coordinator:** The APT Technical Committee on Preservation Engineering and Committee Co-Chair Tim Crowe, SE, RA, Wiss, Janney, Elstner Associates, Inc., Northbrook, IL, USA and Rachel Will, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

Sponsored in part by Hayward Baker and with In-Kind Donations by Wiss, Janney, Elstner Associates, Inc. and J.R. Harris & Company

**Day 1: Cast Stone and Historic Concrete Rehabilitation [W2]**

- **Ticket:** Required
- **Format:** Lecture and discussion
- **Food:** Continental breakfast and lunch
- **Dress Code:** Casual

**Workshop Coordinator:** Paul Gaudette, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

**Dine Around—Sign Up for Tonight’s Dinner!**

**MIX AND MINGLE** with other conference attendees by signing up to attend dinner on Wednesday evening. Choose your restaurant at the APT Registration and Information Desk. (See page 7 for details.)
Day 1: Envelope Performance Testing, Modeling and Monitoring [WS3]

Ticket: Required
Format: Lecture, discussion and hands-on demonstrations
Food: Continental breakfast (pick up in Majestic Foyer before you leave) and lunch in the field
Dress Code: Casual
Transportation: Walk; meet at the church by 7:50 am
Directions: Exit the hotel lobby on Court Place and turn right. Go 1½ blocks to 17th Street; bear right onto 17th, then go two blocks to Sherman Street. On the Sherman Street side of the church there is a large bank of doors. Just to the south of the glass doors is a double glass doorway. Enter that doorway and take the stairway down to Fellowship Hall.

Workshop Coordinators: APT Technical Committee on Sustainable Preservation and Committee Co-Chair Jill Gotthelf, AIA, Walter Sedovic Architects, New York, NY, USA; and APT Training and Education Committee and Committee Co-Chair Carl Elefante, AIA LEED AP, Quinn Evans Architects, Washington, DC, USA

Sponsored by the National Center for Preservation Technology and Training (NCPTT)
Thursday, October 7

7:00 am–8:30 pm
APT Registration and Information Desk
Majestic Foyer

7:00 - 8:00 am
Continental Breakfast
Majestic Ballroom

Field Sessions are paid for in part by a State Historical Fund grant from History Colorado, the Colorado Historical Society

8:00 am–3:30 pm
Field Session: Rocky Mountain National Park [FS1]
Ticket: Required
Format: Charter bus and walking tour
Food: Continental breakfast (pick up boxed meal in hotel lobby before you leave) and lunch in the field
Dress Code: Casual, with good, closed-toe walking shoes

8:00 am–3:30 pm
Field Session: Mining Town Tour [FS2]
Ticket: Required
Format: Charter bus, train and walking tour
Food: Continental breakfast (pick up boxed meal in hotel lobby before you leave) and lunch in the field
Dress Code: Casual, with good, closed-toe walking shoes

8:00 am–3:30 pm
Field Session: Fort Collins, One of America’s Top Ten Preservation Cities [FS3]
Ticket: Required
Format: Charter bus and walking tour
Food: Continental breakfast (pick up boxed meal in hotel lobby before you leave) and lunch in the field
Dress Code: Casual, with good, closed-toe walking shoes

8:00 am–3:30 pm
Workshop: Foundations and Soils in Historic Preservation [WS1]
Ticket: Required
Format: Charter bus and walking
Food: Continental breakfast (pick up boxed meal in hotel lobby before you leave) and lunch in the field
Dress Code: Casual, with good, closed-toe walking shoes

8:00 am–3:30 pm
Workshop: Cast Stone and Historic Concrete Rehabilitation [WS2]
Ticket: Required
Format: Lecture and hands-on learning
Food: Continental breakfast (in meeting room) and lunch
Dress: Casual
### Thursday, October 7 (continued)

<table>
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<th>Time</th>
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| 8:00 am–3:30 pm | **Workshop: Envelope Performance Testing, Modeling and Monitoring [WS3]**  
**Beverly**
- **Ticket:** Required  
- **Format:** Lecture and discussion  
- **Food:** Continental breakfast (in meeting room) and lunch  
- **Dress Code:** Casual  

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| 8:00 am–3:30 pm | **Symposium: Sustainability = Stewardship: Maintenance, Durability, and Life Cycle [SY1]**  
**Columbine**
- **Ticket:** Required  
- **Format:** Lecture and discussion  
- **Food:** Continental breakfast and lunch  
- **Dress Code:** Casual  

### Noon–1:30 pm

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| Plaza Ballroom E | **Workshop/Symposium Lunch and HABS/AIA Peterson Awards Ceremony**  
- **Ticket:** Required  
- **Food:** Plated lunch  
- **Dress Code:** Casual  

This event will serve two exciting purposes—an opportunity to network with other workshop and symposium participants and an occasion to celebrate the achievements of student work.

The Charles E. Peterson Awards for the best student record drawings submitted to the HABS Collection in the Library of Congress will be presented at this event. The jury is composed of representatives of the American Institute of Architects, the National Park Service, and the Athenaeum of Philadelphia, the trustee of the Peterson Endowment. The ceremony will include a selected showing of the winning projects and celebrate the winning teams and the faculty directors.

### 3:45 pm

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| Majestic Foyer | **APT Student Scholars and COF Mentor Gathering**  

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| Majestic Foyer | **Getty Foundation Guests & Hosts Gathering**  


Thursday, October 7 (continued)

4:00–5:00 pm
The Viggio Theater
Sherman St.
Event Center
1770 Sherman St.

This session will be simultaneously interpreted English > Spanish

FS01—Conference Opening Speaker
Format: Lecture
Food: None
Dress Code: Casual
Transportation: Walk about four blocks
Directions: Exit the hotel lobby on Court Place and turn right. Go 1½ blocks to 17th Street; turn right. Go two blocks to Sherman Street, turn left and go one block to 18th Street. The Event Center is on your right.

Preservation Technology: Perils and Possibilities
John A. Ochsendorf is a structural engineer who works to preserve historic structures and to reinterpret traditional technologies for contemporary use. He directs a research program in historic masonry structures at the Massachusetts Institute of Technology, where he is an Associate Professor of Civil Engineering and Architecture.

Sponsored in part by Sherman St Event Center
Following the Opening Session, head back to the APT Exhibit Hall for our Opening Gala.

5:00–8:30 pm
Majestic Ballroom

Opening Gala—Exhibits and Dinner
Ticket: Required
Format: Social
Food: Food stations featuring local specialties; beverages
Dress Code: Casual

A familiar event featuring a new twist! APT celebrates the opening of this year’s Conference featuring a Gala with highlights that you will enjoy throughout the evening and throughout the exhibit hall.

Highlights
- Progressive eating—new food debuted throughout the evening (you’ll love the dessert when you see it!)
- Specialty food (bison burger anyone?)—this will be more than enough for your dinner
- One-on-one time with exhibitors
- Student Scholarship Silent Auction tables
- Surprise prizes—be there to win!

Silent Auction for Student Scholarships
Auction items will be placed on small tables throughout the exhibit hall and in the foyer near the APT booth. Bids are accepted until 4:00 pm, Friday. Winning bids will be posted near the APT Registration and Information Desk that afternoon. You can pay for and pick up our item until 3:00 pm, Saturday. Funds support the 14 Student Scholars from around the country and Belgium who are giving short presentations and participating in the Conference. (see page 26)
Thursday, October 7 (continued)

8:45 pm
Chapters Mixer
Ticket: None required
Format: Social
Food: Dutch treat (pay for your own order)
Dress Code: Casual
Transportation: Walk one mile; ride free 16th Street MallRide Shuttle or taxi. Meet in hotel lobby if you want to walk with a group.
Directions: Walking: Exit hotel, turn right on Court Place. Turn left on 16th Street. Go 10 blocks to Larimer Street and turn left and walk two blocks. Lime is in the Larimer Square, a one block historic district. MallRide: Step on the shuttle outside hotel; step off at Larimer Street, turn left and walk two blocks.

Following the Opening Gala, everyone is invited to join APT Chapter members as they gather for socializing at this restaurant that sits in Denver’s Historic Larimer Square. As the Mile High City’s oldest and most historic block, its buildings tell the story of the birth and early years of Denver.

Friday, October 8

7:00 am–6:00 pm
APT Registration and Information Desk
Majestic Foyer

7:00–8:00 am
APT Committee Meetings
APT Technical Committee on Preservation Engineering • Beverly
APT Publications Committee • Capitol
APT Victoria 2011 Local Conference Committee • Biltmore

7:45 am–4:00 pm
Exhibits Open
Majestic Ballroom

7:45–10:15 am
Continental Breakfast in Exhibit Hall
Majestic Ballroom

7:45–10:15 am
Paper Sessions
All paper sessions will be simultaneously interpreted English <> Spanish.

8:15-9:45 am
Metals—[CS01]
Track: Materials
Session Chair: Gheda Gayou, State Historical Fund, Colorado Historical Society, Denver, CO, USA

Lightning Protection as a Historic Building Technology
Matthew Seymour, School of the Art Institute of Chicago, Chicago, IL, USA

Challenges in Preserving Art and Architectural Metal Finishes
Mark Rabinowitz, Fellow of AIC, and Justine Bello, Conservation Solutions, Inc., Santa Fe, NM, USA
Friday, October 8 (continued)

Philadelphia Museum of Art Exterior Envelope Renovations: A Tale of Two Metals
Michael Holleman, AIA, and Nan Gutterman, AIA, VITETTA Architects & Engineers, Philadelphia, PA, USA

Sullivan’s Carson Pirie Scott: A Case Study in Cast Iron Facade Restoration
Timothy Scovic, Assoc AIA, Harboe Architects, PC, Chicago, IL, USA; and Robert Score, AIA, Harboe Architects, PC & President, APT Western Great Lakes Chapter, Chicago, IL, USA

Uncle Sam’s Log Cabins: Federal Stewardship of Vernacular Log Structures—[CS02]
Track: Structures
Session Chair: Tom McGrath, Jr., National Park Service, Frederick, MD, USA

Preserving and Maintaining Historic Structures in a National Park
Bill Thompson, Rocky Mountain National Park, Estes Park, CO, USA

Western Log Architecture, Strategies for Preserving, Planning and Adaptive use at White Grass Ranch
James McDonald, AIA, White Grass Ranch Rehabilitation, Missoula, MT, USA; and Craig Struble, NPS Western Center for Historic Preservation, Grand Teton National Park, Moose, WY, USA

Assessing and Conserving Log Structures
Kirby Mathew, US Forest Service, Missoula, MT, USA; and Dean Wigfield, NPS-Historic Preservation Training Center, Frederick, MD, USA

Growth of the West and Beyond—Communities—[CS03]
Track: Growth of the West
Session Chair: Elizabeth Hallas, AIA, Andrews & Anderson Architects, PC, Golden, CO, USA

Growth of the West: Cultural Landscapes as Layered Histories
Carrie Mardorf, ASLA, National Park Service, Santa Fe, NM, USA

Patología de la construcción con tierra: daños frecuentes y criterios para una conservación sostenible / Pathology of the Building with Earth, Frequent Damage and Criteria for Sustainable Conservation
Ignacio Javier Gil Crespo and Javier de Cárdenas y Chávarri, PhD, Fundación Diego de Sagredo, Madrid, Spain

Where East Meets West, The Californian Ranch Precinct of Hamilton East
Ian Bowman, B.A, B.Arch., MA Conservation Studies, FNZIA, Practice of Ian Bowman architect and conservator, Wellington, New Zealand
Preserving Industrial Heritage: An Inventory of Industrial Structures in Zonguldak
Aysem Kilinc Unlu, Master of Science, University of Pennsylvania, Hatboro, PA, USA

Documentation—[CS04]
Track: Sustainability
Session Chair: Jane Crisler, LEED AP, Humphries Poli Architects, PC., Denver, CO, USA

Rediscovering An American Master: An Examination And Analysis Of Robert Chanler’s Decorative Plaster Ceiling In The Gertrude Whitney Studio, NY
Lauren Drapala, Masters of Science, University of Pennsylvania, Philadelphia, PA, USA

3D Laser Scanning and Digital Historic Preservation
Tom Keohan, National Park Service, Lakewood, CO, USA; and Ekaterini Vlahos, University of Colorado at Denver, Denver, CO, USA

Adoption of Tacheometric Survey in Combination with BIM and CAD/CAM Technology for Large Gothic Revival Window (Circa 1900) Replacement
Gregory MacNeil, B.A., BEDS., M Arch.; and Jerry MacNeil Architects Limited, Halifax, NS, Canada

Using High Density Lidar and Three Dimensional Gis in Historical Preservation and Resource Documentation at the Abo Painted Rocks Pictograph Site
Derek Toms, National Park Service, Mountainair, NM, USA; and Domenick Alario, GIS/LiDAR Specialist, HDR, Fairfax, VA, USA

Break in Exhibit Hall

Paper Sessions

The Characterization of Historic Lime Mortars with a Focus on Provenance
Dorn Carran, Bsc, MA, University of the West of Scotland, Renfrewshire, United Kingdom

Lime-based Consolidation of Historic Mortars and Stones
Milo Drdácký, Dipl.Ing.PhD.DrSc and Zuzana Slížková, Dipl.Ing.Ph.D., Institute of Theoretical and Applied Mechanics of the Academy of Sciences of the Czech Republic, Praha, Czech Republic
Comparative Laboratory Evaluation of Conservation Mortars
Jennifer Schork, Integrated Conservation Resources, New York, NY, USA; and Norman R Weiss, FAPT, Integrated Conservation Resources and Columbia University GSAPP, New York, NY, USA

ASTM C1713: A New Mortar Specification for Historic Masonry
John Wathne, PE, Structures North Consulting Engineers, Inc., Salem, MA, USA; Margaret Thomson, PhD, Lhoist North America, Henderson, NV, USA; and Michael Schuller, PE, President, Atkinson-Noland & Associates, Inc. Boulder, CO, USA

Diagnostics—[CS06]
Track: Structures
Session Chair: Anne McCleave, State Historical Fund, Colorado Historical Society, Denver, CO, USA

Battersea: an Interior Finishes Analysis of an 18th Century Palladian Home
Kirsten Travers, BFA, MS in progress, Winterthur University of Delaware Program in Art Conservation, Wilmington, DE, USA

Dinosaur National Monument Visitor Center Rehabilitation and Replacement
David Anderson, AIA, LEED AP, Andrews & Anderson Architects, PC, Golden, CO, USA; and Daniel Cooke, PE, JVA, Inc., Boulder, CO, USA

Diagnostics and Analysis for Historic Stone Retaining Walls

La Recomposición Volumétrica y Consolidación Estructural del Templo de San Ignacio en Bogotá / The Volumetric Recomposition and Structural Consolidation of Bogota’s San Ignacio Temple
Gloria Mercedes Zuloaga Lozada, Pontificia Universidad Javeriana, Bogotá, Colombia

Growth of the West and Beyond—Structures [CS07]
Track: Growth of the West
Session Chair: Elizabeth Hallas, AIA, Andrews & Anderson Architects, PC, Golden, CO, USA

History and Conservation of Early Electrical Systems in American Buildings
LaLuce Mitchell, School of the Art Institute of Chicago, Chicago, IL, USA
Friday, October 8 (continued)

**Preserving the Modern Ranch: The Pitchfork in Wyoming**
Scott Demel, RA, LEED-AP, Rogers Marvel Architects, New York, NY, USA

**Hedley Mascot Mine Camp Stabilization**
Barry McGinn, PE, MAIBC, MSc Historic Preservation, McGinn Engineering & Preservation Ltd., Vancouver, BC, Canada

**Built for Destruction: The Apple 2 Houses at the Nevada Test Site**
Nancy Goldenberg, RA, LEED-AP, Carey & Co., Inc Architecture, San Francisco, CA, USA

10:15-11:45 am

**Where Are We Going?—[CS08]**
Track: Sustainability
Session Chair: Jane Crisler, LEED AP, Humphries Poli Architects, P.C., Denver, CO, USA

**Sustainability and Preservation: Making Policy an Initiative of the Friends of NCPTT and the National Trust for Historic Preservation**
John Anderson, SE, Robert Silman Associates, Structural Engineers, New York, NY, USA

**Toward a Greater Understanding of How Preservation Addresses the Needs of a Sustainable Built Environment**
Robert Young, FAPT, University of Utah, Salt Lake City, UT, USA

**The Intersection of Sustainability and Preservation in Europe**
Tina Roach, AIA, LEED AP, Quinn Evans | Architects, Washington, DC, USA; and Douglas Gilbert, AIA, Douglas E Gilbert, Architect, Oak Park, IL, USA

11:45 am–4:00 pm

**Lunch, Networking and Silent Auction in Exhibit Hall**
**Ticket:** Name badge required
**Format:** Networking, bidding and eating
**Food:** Lunch served 11:45 am–12:30 pm
**Dress Code:** Casual

Enjoy a portable lunch that will be served beginning at 11:45. You can place your final Student Scholarship Auction bids until 4:00 pm. Auction winners will be posted in the Majestic Foyer shortly thereafter. You can stop by the APT Registration and Information Desk to pay for and pick up your fabulous items this afternoon and any time before 4:00 pm, Saturday.
Friday, October 8 (continued)

Field Session: Behind the Scenes at the Denver Federal Center—Ice Lab, Hydraulics Lab, Materials Engineering and Research Lab [FS5]
Ticket: Required
Format: Charter bus and walking tour
Dress Code: Casual, with good walking shoes; warm jacket and gloves for ice core lab tour. Lab is 30 degrees below zero!
Additional requirements: NO cameras; be prepared to pass through airport-type scanner
US citizens—government-issued identification is required to enter the Federal Center and each Lab Building.
Non-US citizens—passport is required. You must have submitted your name, passport number and date of birth to APT by September 23.
CAUTION: Diabetics and others with possible health issues not recommended on this tour due to extreme temperature exposure.

1:00–4:00 pm
Field Session: Denver’s Civic Center Historic District [FS4]
Ticket: Required
Format: Walking tour
Dress Code: Casual, with good walking shoes

1:00–4:00 pm
Field Session: Downtown Denver Federal District [FS6]
Ticket: Required
Format: Walking tour
Dress Code: Casual, with good walking shoes

1:15–3:15 pm
APT Latin American Chapter/PROTERRA Roundtable Discussion
Ticket: None required
Format: Roundtable discussion
Food: None
Dress Code: Casual

Earthen Architecture in Latin America: A Roundtable Discussion, hosted by the newly formed APT Latin America Chapter and the PROTERRA Network*, will explore preservation technology practices in Latin America, with a focus on earthen architecture issues.
Panelists:
Mónica Bahamondez, Centro Nacional de Conservación y Restauración, Santiago, Chile
Luis Guerrero, PhD, Universidad Autónoma Metropolitana- Xochimilco, México City, D.F., México
Célia Neves, Rede Ibero-americana PROTERRA, Rede TerraBrasil and CN Consultoria, Brazil
Mirta Sosa, University of Tucuman, Argentina, San Miguel de Tucumán, Tucumán, Argentina
Marco Rezende, PhD, Federal University of Minas Gerais, Brazil
Andrés Gaviria, Universidad Javeriana, Bogotá, D.C., Columbia

Led by the APT LA Chapter president, Andrés Gaviria (Colombia) and Mexican PROTERRA President, Luis Guerrero Baca, the pair will host a discussion with key members of the PROTERRA Network and recipients of the Getty Travel Support Funds.

*The PROTERRA Network is a multilateral international project and technical cooperative whose focus is the dissemination of earth construction technologies within productive sectors to impact the social policies of Latin American countries. PROTERRA has more than 100 members including universities, research centers and companies from 17 Latin American countries.

3:30–5:30 pm

Open House at the Center of Preservation Research and College of Architecture and Planning at the University of Colorado-Denver, featuring the Center of Preservation Research

Ticket: None required
Format: Social
Food: Hors d’oeuvres and beverages
Dress Code: Casual
Transportation: Walk, free 16th Street MallRide Shuttle or taxi

Directions: Walking: Exit hotel and turn left on 16th Street. Go 10 blocks to Larimer Street and turn left. Go two blocks to the UCD Building, which is on the corner of 14th and Larimer streets. MallRide: Step on the shuttle outside hotel; step off at Larimer Street and turn left. Go two blocks to the UCD Building, which is on the corner of 14th and Larimer streets.

UCD is the only university in Colorado with a combined historic preservation, public history, design, and technology educational presence. It offers a graduate certificate in historic preservation. A Master of Science in Historic Preservation is being offered for the first time this semester.

Your hosts, faculty and students in the preservation programs, invite you to stop by on your way to the College of Fellows lecture. They will be available to discuss the research and projects they will have on display, as well as preservation education and historic preservation in Colorado and elsewhere.

Following the Open House, you can easily move on to the COF Lecture on the Auraria Campus. Exit the UCD building through the main entrance and turn right toward Lawrence Street. Turn right on Lawrence Street. Follow Lawrence Street straight, across Speer Boulevard, onto the Auraria Campus. St Cajetan’s will be ahead on your left.
APT Committee Meetings
APT Technical Committee on Preservation Engineering • Beverly
APT Technical Committee on Modern Heritage • Columbine
APT Technical Committee on Sustainable Preservation • Denver
APT Training and Education Committee • Aspen Boardroom
APT Student Scholarships and Outreach Committee • Vail
APT Chapters Committee • Terrace
APT Publications Committee • Capitol
APT Charleston 2012 Local Conference Committee • Biltmore

APT Conference Sustainability Track Presenters Meeting
A gathering for the Session Chair and speakers presenting in the Sustainability Track.

College of Fellows Keynote Lecture
Ticket: None required
Format: Lecture
Food: None
Dress Code: Casual
Transportation: free 16th Street MallRide Shuttle, pedicab or taxi
Directions: MallRide: Exit hotel and cross street to shuttle stop. Take the free 16th Street MallRide Shuttle to the Lawrence Street stop. Cross 16th street and walk southwest for eight blocks. You will cross Speer Blvd and be on campus for approximately half of the walk. The church is located at Lawrence Way (pedestrian only) and 7th Street. Pedicab: Look for pedicabs on the 16th Street Mall. A fee will be charged.

Beyond Preservation Technology: Completing our Heritage Toolkit for the 21st Century
Gustavo Araoz, AIA, is the first American ever elected to the office of president of the International Council on Monuments and Sites (ICOMOS). Born in Cuba, Mr. Araoz is a preservation architect by training. His career combines professional practice, academia, and institutional management. He has served as Executive Director of the United States Committee of ICOMOS since 1995. From 2002, he served as International Vice President of ICOMOS, spearheading organizational reforms and advocating greater engagement of ICOMOS members worldwide.

Live Auction for Student Scholarships — at the Banquet
Take home fabulous items with your generous bidding. Student Scholars will assist with getting the best bids from the crowd—hope it’s you! Funds support the 14 Student Scholars from around the country and Belgium who are giving short presentations and participating in the Conference. (see page 26)
Friday, October 8 (continued)

7:00–11:00 pm
Turnhalle Hall at Tivoli Student Union on the Auraria Campus

Awards Banquet
Ticket: Required
Format: Reception followed by banquet and awards ceremony
Food: Beverages, light hors d’oeuvres, dinner
Dress Code: Dinner (jacket, but not tux)
Transportation: 16th Street MallRide Shuttle, pedicab or taxi
Directions: From the COF Lecture at St Cajetan’s: Leave the venue and head west one block to Larimer (pedestrian only). Turn toward downtown (right) and walk past the Tivoli to the northeast corner entrance. Enter this door; the Turnhalle will be directly in front of you across the hall. From the hotel: Exit hotel and cross street to shuttle stop. Take the free 16th Street MallRide Shuttle to the Larimer Street stop. Turn left and walk southwest for approximately six blocks. You will cross over Speer Blvd and be on campus—the Tivoli is directly ahead of you. The Turnhalle is immediately to the right of the entrance facing Speer Blvd and has good directional signage.

Saturday, October 9

6:30 am–4:00 pm
Majestic Foyer

APT Registration and Information Desk

7:00–8:00 am
Majestic Ballroom

Chapters & New Members Breakfast
Ticket: Required
Format: Buffet and presentations by APT Chapters Committee members
Food: Breakfast
Dress Code: Casual

All APT Chapter members and New Members are invited to gather for breakfast to eat, network and learn about chapter activities.

7:00–8:00 am
Outside Meeting Rooms

Coffee

8:00-9:30 am
Vail

Paper Sessions

Problems and Solutions—[CS09]
Track: Materials
Session Chair: Shan Wo, EIT, Atkinson-Noland & Associates, Inc., Boulder, CO, USA

Lasers and Conservation in the USA: An Exploration of the Limited Use of Laser Technologies for Cleaning Stone
Catherine Smith, BA, MS (2010), Columbia University, New York City, NY, USA

Let’s Call a Spall a Spall
Evan Kopelson, Vertical Access LLC, Ithaca, NY, USA
Comparative Study of Commercially Available Paint Strippers for Use on Historic Brick
Sarah Jackson, National Center for Preservation Technology and Training, Natchitoches, LA, USA

Slate: A Traditional Material with Modern Expectations What Can Go Wrong?
Annabelle Radcliffe-Trenner, Historic Building Architects LLC, Trenton, NJ, USA

Rehabilitation, Renovation and Preservation— [CS10]
Track: Structures
Session Chair: Dan Worth, AIA, BVH Architects, Omaha, NE, USA

Evaluation of Past Preservation Treatments
Payal Vora, BS in Materials Engineering, University of Texas at Austin, Austin, TX, USA

Rehabilitating the Cave and Basin National Historic Site, Banff National Park, Alberta, Canada
Julia Gersovitz, FAPT, Fournier Gersovitz Moss & Associates, Montreal, QC, Canada

Modern Continuity: The Magnolia Branch Library Renovation and Addition
David Strauss, PhD, SHKS Architects and University of Washington, Seattle, WA, USA

Go West, Young Hypar! Milo S. Ketchum and Concrete Thin Shells in Colorado
Thomas Boothby, PhD and M Kevin Parfitt, PE, Penn State University, University Park, PA, USA

The Preservation of Barns in Routt County, Colorado
Arianthé Stettner, MAHP(in process) MBA, BA cum laude, Goucher College, Steamboat Springs, CO, USA

Ranches on the Texas Llano Estacado: Building Construction Traditions
Elizabeth Louden, PhD, Texas Tech University, Lubbock, TX, USA
Saturday, October 9 (continued)

**Mississippi Longleaf Yellow Pine: Its Use by H.H Richardson and Louis Sullivan and the Conservation of the Charnley-Norwood Cottage**
John Waite, FAIA, FAPT and Clay S Palazzo, AIA, LEED, John G Waite Associates, Architects, Albany, NY, USA

**The Rangers’ Club: The House that Mather Built**
George Jaramillo, Yosemite National Park, El Portal, CA, USA

8:00-9:30 am

**Columbine**

**Sustainability and Preservation—[CS12]**
Track: Sustainability
Session Chair: Linda Purcell, AIA, architecture PML, Denver, CO, USA

**Old Debate, New Considerations: Restoration of an Early 20th Century Texas Landscape**
Jennifer Minner, MURP, University of Texas at Austin, Austin, TX, USA

**A Sustainable Approach to Conservation—Hardman Farm**
Susan Turner, AIA, LEED AP and Tom Butler, LEED AP BD+C, Lord Aeck & Sargent Architecture, Atlanta, GA, USA

**Trains and Training: The Design and Rehabilitation of Montezuma Castle, Las Vegas, New Mexico**
Christopher Tavener, AIA, LEED AP, and Mark Thaler, AIA, EYP/Architecture and Engineering, PC, Albany, NY, USA

**Heritage Preservation Engineering Curricula**
Douglas Porter and Jeffrey S Marshall, University of Vermont, Burlington, VT, USA

9:30–10:00 am

**Break**

**Paper Sessions**

10:00-11:30 am

**Vail**

**Brick and Terra Cotta—[CS13]**
Track: Materials
Session Chair: Shan Wo, EIT, Atkinson-Noland & Associates, Inc., Boulder, CO, USA

**What We Use to Build: Cream City Brick**
Christopher Ciesielski, Master of Science in Historic Preservation, School of the Art Institute of Chicago, Chicago, IL, USA

**Soft Brick, Undercover and Exposed: A Conservation Challenge**
Jorge Ortiz-Colom, M Arch, Instituto de Cultura Puertorriqueña, Guayama, PR, Puerto Rico; and Miguel Vergara-Gascot, BSc, Master Paints & Coatings Corporation, Guayanilla, PR, Puerto Rico

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<td>RCEP PDHs</td>
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Glazed and Confused: Issues with Durability of Glazed Architectural Terra Cotta
Xsusha Flandro, MS-Historic Preservation, Jablonski Building Conservation & Columbia University, New York, NY, USA

The Use of Calibrated Digital Photography to Match and Evaluate Color Differences in Masonry Repairs
John Harry, John E Harry, Restoration Services, Allentown, PA, USA; and Michael Edison, Edison Coatings, Inc., Plainville, CT, USA

Vernacular Construction—[CS14]
Track: Structures
Session Chair: Dan Worth, AIA, BVH Architects, Omaha, NE, USA

The Byrne-Reed House: Layers of History Revealed through Layers of Paint.
Hannah Meyer, BA, Texas Tech University, Austin, TX, USA

Structural Assessment of the Thomas Moran House—Issues with Eclectic, Vernacular Construction
Edmund Meade, PE, Robert Silman Associates, Structural Engineers, New York, NY, USA

Selectively Preserving: The Thomas Hill Studio
George Jaramillo, Yosemite National Park, El Portal, CA, USA

Adobe Construction at Fort Lyon, Colorado
Fred Rutz, PE, SE, PhD, JR Harris & Company, Denver, CO, USA; and Gary Petri, AIA, SLATERPAULL Architects, Inc., Denver, CO, USA

Spanish Missions in the West—[CS15]
Track: Growth of the West
Session Chair: Barb Darden, Scheuber + Darden Architects LLC, Aurora, CO, USA

Evaluating the Layers of Restoration at Mission San Antonio de Padua
Catherine Vieth, LEED AP, Architectural Resources Group, San Francisco, CA, USA

Investigation of Decoratively Painted Structural Wood at Mission San Miguel Arcángel, California
Douglas Porter, University of Vermont, Burlington, VT, USA; and Kim Dugan, Anthony & Associates, Fort Collins, CO, USA

Mission San Miguel Chapel: A Painted Wood Ceiling Restored
Sylvia Schweri, MA, Chattel Architecture Planning and Preservation, Inc., Los Angeles, CA, USA
**Saturday, October 9 (continued)**

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<tr>
<td>10:00-11:30 am</td>
<td><strong>Topics in Sustainability—[CS16]</strong></td>
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<td><strong>Track:</strong> Sustainability</td>
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<td><strong>Session Chair:</strong> Linda Purcell, AIA, architecture PML, Denver, CO, USA</td>
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<td><strong>Opening a Window for Preservation with Life Cycle Assessment</strong></td>
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<td><strong>Quantifying the Sustainability of Preservation</strong></td>
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<td>Katherine Switala Elmhurst, LEED AP, Temple University, Wallingford, PA, USA</td>
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<td><strong>Historic Lighting Restoration: Lighting The Way For Another Hundred Years</strong></td>
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<td>Peter Janko, Lumenelle, Inc., Marengo, IL, USA</td>
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<td><strong>Energy Efficiency and Preservation of Small Scale Midwestern Main Street Commercial Heritage</strong></td>
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<td>Ulrike Passe, Dipl.-Ing Architect BDA, Iowa State University, Ames, IA, USA</td>
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<td><strong>Sustainably Conserving the Heritage of the Past for the Occupant of the Future—A Case Study of The Hudson</strong></td>
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<td>John Dam, P.Eng., LEED AP, Read Jones Christoffersen Ltd., Victoria, BC, Canada</td>
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<tr>
<td>11:45 am–12:30 pm</td>
<td><strong>Professional Research Travel Program to Cuba</strong></td>
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<td>This informational session will introduce APT’s ten-day program scheduled for February 2011, which is open to full-time preservation and conservation professionals. Tables will be reserved at lunch for those with a ticket ($10). Seating will be available for those without a lunch ticket.</td>
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<td><strong>Lunch</strong></td>
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<td><strong>Ticket:</strong> Required</td>
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<td><strong>Format:</strong> Informal networking</td>
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<td><strong>Food:</strong> Lunch</td>
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<td>12:30–1:15 pm</td>
<td><strong>APT Annual General Meeting</strong></td>
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<td>1:30-3:30 pm</td>
<td><strong>Masonry—[CS17]</strong></td>
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<td><strong>Track:</strong> Materials</td>
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<td><strong>Session Chair:</strong> Shan Wo, EIT, Atkinson-Noland &amp; Associates, Inc., Boulder, CO, USA</td>
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<td><strong>The Sandstone Masonry at Durham Castle: Alveolar Erosion and Possible Conservation Treatments</strong></td>
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<td>Tiffani Simple, MS in Historic Preservation, University of Pennsylvania, Lyons Falls, NY, USA</td>
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Saturday, October 9 (continued)

**The History of Masonry Tools**
Jennifer Kovach and Brendan Beltz, Western Waterproofing, Portland, Oregon, USA

**New Insights on Pinning Fractured Marble**
George Wheeler, PhD, FAIC, FIIC, FAAR, Columbia University, New York, NY, USA

**Marble Consolidation: Is It Worth the Effort?**
George Wheeler, PhD, FAIC, FIIC, FAAR, Columbia University, New York, NY, USA

**Masonry Cladding of Steel Framed Buildings, 1880 to 1940: An Evolving Relationship**
Richard Ortega, AIA, PE, FAPT, Ortega Consulting, Media, PA, USA; and James Dossett, CDT, RMJM, Philadelphia, PA, USA

**Structural Topics—[CS18]**
Track: Structures  
Session Chair: Dan Worth, AIA, BVH Architects, Omaha, NE, USA

**Cast-Iron Facades as Structural Shear Walls**
Marie Ennis, PE, Old Structures Engineering, PC, New York, NY, USA

**Graphic Statics and Preservation Practice**
David Foxe, EYP/Architecture and Engineering, PC, Newton, MA, USA

**Seismic Evaluation and Rehabilitation Designs for Structures in Yellowstone and Grand Canyon National Parks**
Eric Stovner, S.E., LEED AP, Critical Structures, Anaheim, CA, USA

**Integrating Professional Knowledge across Disciplines to Build New Below the Historic: Down and Dirty Below the Old DC Courthouse**
James Shepherd, Beyer Blinder Belle Architects & Planners LLP, Washington, DC, USA; and Nicole Ferran, Robert Silman Associates, Washington, DC, USA

**Preserving the Layers Across Time—[CS19]**
Track: Growth of the West  
Session Chair: Barb Darden, Scheuber + Darden Architects LLC, Aurora, CO, USA

**Protecting the Fort: Consolidation of Lime Concrete at Fort Laramie National Historic Site**
Helen Thomas-Haney, Jablonski Building Conservation, Inc., New York, NY, USA
Rehabilitation of the Sacramento Southern Pacific Depot: Keeping a Multi-Phase Project on the Right Track
Jason Towle, SE, Simpson Gumpertz & Heger, San Francisco, CA, USA; and Andrew Wolfram, LEED AP, Perkins + Will, San Francisco, CA, USA

The Unique Challenges of Preserving a Gold Mining Dredge
Gerard van Rijn, PE, Public Works & Government Services Canada, Calgary, AB, Canada

Tramways, Draw Works, and Flumes
Ron Anthony, Anthony & Associates, Inc., Fort Collins, CO, USA; and Douglas Porter, University of Vermont, Department of Engineering, Burlington, VT, USA

Buildings and Practices Throughout Time—[CS20]
Track: Sustainability
Session Chair: Linda Purcell, AIA, architecture PML, Denver, CO, USA

New Roof for an Old Courthouse in St Louis, the Gateway to the West
Ilene Tyler, FAIA, FAPT, LEED AP and Ann Dilcher, AIA, LEED AP, Quinn Evans | Architects, Ann Arbor, MI, USA

Cast Iron Ornament: Colorado State Capitol Case Study
Daniel Gach, AIA, Wiss, Janney, Elstner Associates, Inc., Lakewood, CO, USA; and Edward Gerns, RA, LEED AP, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

Moving the Boulder Jaycee Depot: Structural and Restoration Challenges
Mark Grundmann, ICRI, BASF Corporation, Arvada, CO, USA

The Evolution of Doomed Practices
Larry Jones, APT, ASTM, CleaningStoneandMasonry.com, Houston, TX, USA

The APT Cyber Café
The APT Cyber Café is located near the APT Registration and Information Desk. It includes Conference information and support material that can be reviewed, emailed, downloaded or printed. Internet access is also available.
You will find:
- Program Book as a .pdf
- Handouts
- Participant List/Conference Roster
- APT Student Scholarships Auction List
- CE Forms
- Denver City Map
- More…check it out!
APT Board of Directors Meeting #2

APT Social and Billiards Tournament
Ticket: Required
Format: Social
Food: Buffet dinner, locally brewed beer, beverages
Dress Code: Casual
Transportation: Walk 1.5 miles, 16th Street MallRide Shuttle or taxi
Directions: Walking: Exit hotel and turn left on 16th Street. Go 14 blocks to Wynkoop Street and turn right. The brewery is at the corner of 18th and Wynkoop. MallRide: Step on the shuttle outside hotel; step off at Wynkoop Street and turn right.

The Wynkoop Brewery is not just a pub, it’s an experience. You’ll be greeted at the door by a silverback gorilla. We will gather on the second floor, which is the home of Wynkoop Billiards with 22 pool tables, 2 private pool rooms, several dart lanes and a bar serving the brewery’s signature beers, including the Silverback Beer that Wynkoop cans and has on tap.

APT has private use of a section of the pool tables for an APT Billiards Tournament, hosted by our very own Melanie Short. You can register for the tournament at the APT Registration Desk in advance or add your name to the list on site. This is a fun-based (not skill-based) tournament so join in just for entertainment!

While in LoDo (Lower Downtown), enhance your time by visiting some other landmarks:
- Denver Union Station, 17th and Wynkoop streets
  Built in 1881 and rebuilt in 1914 after a fire, this historic building serves as a bus and light rail hub.
- Coors Field, 20th and Blake streets (2 blocks north of the Wynkoop)
  Constructed in 1995, it’s the home of the Colorado Rockies Baseball.
- The Cruise Room at The Oxford Hotel, 17th and Wazee streets (around the block)
  Built in 1891, the Oxford Hotel houses the Cruise Room, an Art Deco bar, opened in 1933 after Prohibition was repealed. “It’s a great bar,” says a member of the Local Conference Committee.

College of Fellows Business Meeting
Continental Breakfast will be served.
Student Scholarship Recipients

The APT Scholarship and Outreach Committee* selected the following students to receive an APT Denver 2010 Scholarship, which includes a Conference registration, a complimentary one-year APT membership, the opportunity to give oral presentations during one of the Conference paper sessions, and introduction to a mentor from the APT College of Fellows.

*Co-Chairs: Lesley Gilmore, CTA Architects Engineers and Joan C Berkowitz, SuperStructures

Dorn Carran  
*The Characterisation of Historic Lime Mortars with a Focus on Provenance*  
University of the West of Scotland  
Renfrewshire, United Kingdom

Christopher Ciesielski  
*What We Use to Build: Cream City Brick*  
School of the Art Institute of Chicago  
Chicago, IL, USA

Lauren Drapala  
*Rediscovering An American Master: An Examination And Analysis Of Robert Chanler’s Decorative Plaster Ceiling In The Gertrude Whitney Studio, NY*  
School of Design, University of Pennsylvania  
Philadelphia, PA, USA

Aysem Kilinc Unlu  
*Preserving Industrial Heritage: An Inventory Of Industrial Structures In Zonguldak*  
University of Pennsylvania  
Philadelphia, PA, USA

Hannah Meyer  
*The Byrne-Reed House: Layers of History Revealed through Layers of Paint*  
Texas Tech University  
Lubbock, TX, USA

Jennifer Minner  
*Old Debate, New Considerations: Restoration of an Early 20th Century Texas Landscape*  
University of Texas at Austin  
Austin, TX, USA

LaLuce Mitchell  
*History and Conservation of Early Electrical Systems in American Buildings*  
School of the Art Institute of Chicago  
Chicago, IL, USA

Matthew Seymour  
*Lightning Protection as a Historic Building Technology*  
School of the Art Institute of Chicago  
Chicago, IL, USA

Tiffani Simple  
*The Sandstone Masonry at Durham Castle: Alveolar Erosion and Possible Conservation Treatments*  
University of Pennsylvania  
Philadelphia, PA, USA

Catherine Smith  
*Lasers and Conservation in the USA: An Exploration of the Limited Use of Laser Technologies for Cleaning Stone*  
Columbia University  
New York City, NY, USA

Arianthé Stettner  
*The Preservation of Barns in Routt County, Colorado*  
Goucher College  
Baltimore, MD, USA
Katherine Switala Elmhurst
Opening a Window for Preservation with Life Cycle Assessment—Quantifying the Sustainability of Preservation
Temple University
Philadelphia, PA, USA

Payal Vora
Evaluation of Past Preservation Treatments
Purdue University
West Lafayette, IN, USA

The following members of the APT College of Fellows volunteered as mentors to this year’s Student Scholars:

Natalie Bull, FAPT
Walker C. Johnson, FAIA, FAPT
David M. Hart, AIA, FAPT
Lonnie James Hovey, AIA, FAPT
Marilyn E. Kaplan, FAPT
Rick I. Ortega PE AIA, FAPT
Sharon Park, FAIA, FAPT

Mike Schuller, FAPT
Ron D. Staley, FAPT
Thomas H. Taylor, Jr., PhD, FAPT, FAIC
Ilene R. Tyler, FAIA, FAPT
John G. Waite, FAIA, FAPT
David Woodcock, FAPT
Robert Young, FAPT, FAIA

Martin Weaver Student Scholar 2010
Kirsten Travers
Battersea: an Interior Finishes Analysis of an 18th Century Palladian Home
Winterthur University of Delaware Program in Art Conservation
Wilmington, DE, USA

Ms. Travers will use her Martin Weaver Student Scholarship to support her participation in a short-term (two to three weeks) Architectural Paint Research project at the Norwegian Institute for Cultural Heritage Research (NIKU). She will be aiding the Norwegian study, enhancing her own professional development, helping to preserve Norway’s painted heritage, and sharing her experience with American colleagues through articles and presentations. Through this, others will gain increased awareness of the NIKU approach to paint research and how their methodologies could benefit our own work. Her plans to disseminate her findings were key in her selection as this year’s Martin Weaver Scholars.

APT is grateful for the financial support of the following groups, as well as those who donate to and bid during the Student Scholarships Auction.

- State Historical Fund, Colorado Historical Society
- APT DC Chapter
- APT Rocky Mountain Chapter
- George Wheeler, PhD, FAIC, FIIC, FAAR
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### Papers at a Glance

#### 8:15-9:45 am, FRIDAY, OCTOBER 8

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#### 10:15-11:45 am, FRIDAY, OCTOBER 8

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<td>Built for Destruction: Apple 2 Houses at the Nevada Test Site</td>
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### Papers at a Glance

**1:30-3:30 pm, SATURDAY, OCTOBER 9**

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| CS17—Masonry  
*Room: Vail* | CS18—Structural Topics  
*Room: Terrace* | CS19—Preserving Layers Across Time  
*Room: Denver* | CS20—Buildings and Practices Throughout Time  
*Room: Columbine* |
| Sandstone Masonry at Durham Castle: Alveolar Erosion and Possible Conservation Treatments | Cast-Iron Facades as Structural Shear Walls | Protecting the Fort: Consolidation of Lime Concrete at Fort Laramie National Historic Site | New Roof for an Old Courthouse in St. Louis, the Gateway to the West |
| History of Masonry Tools | Graphic Statics and Preservation Practice | Rehabilitation of the Sacramento Southern Pacific Depot: Keeping a Multi-Phase Project on the Right Track | Cast Iron Ornament: Page Brothers Building Case Study |
| Marble Consolidation: Is It Worth the Effort? | Integrating Professional Knowledge Across Disciplines to Build New Below the Historic: Down and Dirty Below the Old DC Courthouse | Tramways, Draw Works, and Flumes | Evolution of Doomed Practices |
| Masonry Cladding of Steel Framed Buildings, 1880 to 1940: An Evolving Relationship | | | |
Fisgard Lighthouse, a National Historic Site, is the first lighthouse on Canada’s west coast and is still in operation. Although a keeper has not been on site since the light was automated in 1929, it is a popular destination for thousands of visitors who can step inside a real 19th century lighthouse and capture some of the feeling of ships wrecked and lives saved. The site will be included on one of the full-day field sessions.

APT is accepting abstracts for its APT Victoria 2011 Conference. The deadline for submission is February 21, 2011.

The Call for Abstracts is with your materials distributed at the APT Registration Desk and online at www.apti.org. The electronic submission form is online at www.apti.org.