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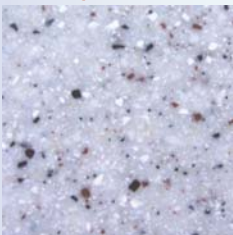
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inside this issue

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Photo by: Kevin McCann



ON THE COVER

Project
Cathedral of the Blessed Sacrament

Architect
Beyer, Blinder, and Belle

Fabricator/Installer
Burnett & Sons

Project Statement

The Cathedral of the Blessed Sacrament, located in the heart of downtown Sacramento, underwent a \$34-million restoration and retrofit from 2003-2005. Burnett & Sons spent approximately 5,500 man hours on the project and assisted on the design of the reservation chapels.

The reservation chapel screen required a 15-foot high screen supported by 32 four-inch square tube steel columns, concealed within each of the fluted mahogany columns. The tube steel columns are connected together (across the top) with 3x12 LVL beams.

Mahogany wainscot runs around the lower perimeter of the screen, along the ramps and stairs. The reservation screen was shop assembled as much as possible to lessen the amount of jobsite installations.

The reconciliation chapels (confessionals) was a challenging aspect of the project. The general contractor provided the dismantled pieces of two original confessionals. The job required Burnett Sons to create two more spacious chapels, incorporating the original chapel pieces with new pieces.

chairman's commentary

And the Winners are...

Every year the Woodwork Institute honors some of the best projects in the woodmill industry with the Bernard B. Barber and Ralph B. McClure awards. It is very inspiring to see the innovative work that is being cultivated in our industry.

Even more exciting is that recently the Woodwork Institute Board of Directors voted to not limit the number of winners to three or less projects in each category. That resulted in the Institute bestowing 10 projects the Ralph B. McClure Craftsmanship award this year. I know you will be amazed by these dynamic projects.

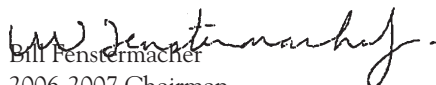
This year's winners include everything from a luxury yacht to a rehabilitated cathedral. Our Best of the Best article featuring these projects begins on page 10. I hope you find it as enjoyable and inspirational as I did. I would also like to extend my sincere congratulations to this year's winners. Your commitment to quality woodworking is vital to the success of our industry.

I encourage all of you to submit your projects for our Bernard B. Barber and Ralph B. McClure awards. We are now accepting award applications year around. Applications submitted before August 31st of each year will be considered for the current year. Those submitted September 1st and later will be considered for the following year.

This edition of Archetype also features a follow up to Steve Taylor's Spring/Summer article on laboratory countertops. An insightful reader wanted to share some additional information about topics with our readership. I think you will find the article on page 27 very interesting.

In addition, the Woodwork Institute has received many questions from members and the design community about the restructuring of our fee system. In an article on page 24, Megan White clarifies the actual cost of certification.

If you have ideas for future Archetype articles, please send them to me at info@woodinst.com. Until next time, it's our Woodwork Institute. Help support us and make us strong.


Bill Fenstermacher
2006-2007 Chairman



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2005-2006

Best of the Best

By Megan White

Every year, the Woodwork Institute recognizes excellence in the woodwork and its design with a series of awards. Recently, the awards program has been slightly restructured to allow for more deserving projects to be recognized. This year, three projects received the Bernard B. Barber Jr. award, and a record ten projects received the Ralph B. McClure Award for Excellence.

The Institute's most prestigious award, the Bernard B. Barber Jr. Award for Excellence is given to examples of outstanding architectural millwork. The award is named in honor of Mr. Bernard Barber, who has dedicated more than 40 years to the Woodwork Institute. Since the first Bernard B. Barber Jr. Award for Excellence was presented in 1965, more than 100 projects have received this recognition.

Bernard B. Barber Jr. Award for Excellence nominees may be submitted by any design professional or Woodwork Institute member who was contractually tied to the project. Specifications must require Certified or Monitored Compliance to be eligible. A full list of past winners and entry forms can be viewed on the Institute's website at www.woodworkinstitute.com/awards.

The following projects have been awarded the Bernard B. Barber Jr. Award for Excellence by the Institute in the last year:

Bernard B. Barber Jr. Awards for Excellence
for Outstanding Use of Architectural Woodwork

Best of the Best

The Cathedral of the Blessed Sacrament is located in the heart of downtown Sacramento. From 2003-2005, the building underwent a \$34 million restoration and retrofit.

Burnett & Sons spent approximately 5,500 man hours on the project and assisted in the design with the reservation chapels (reserved seating area). The most challenging aspects of the project were the reservation

chapel screen and the reconciliation chapels (confessionals).

The reservation chapel screen required a 15-foot high screen supported by 32 four-foot square tubular steel supports, concealed within each of the fluted mahogany columns. The columns are connected together (across the top) with 3x12 beams.

Positioning of the metal support system was critical to insure the shop



The Cathedral of the Blessed Sacrament, Sacramento, California

Architects: Beyer, Blinder, and Belle

General Contractor: HMH Builders, Inc

Fabricator/Installer: Burnett & Sons

fabricated wood members would fit properly, along with the metal grills that were later installed between the wood columns. Sixty-two arches and cornices, in seven various sizes "sandwich" the 31 beam structure.

The general contractor provided the dismantled pieces of two original confessionals. With respect to the reconciliation chapels, the project required Burnett and Sons to create two more chapels, incorporating

the original chapel pieces with new ones they had to fabricate. Six journeymen in the shop put great care and skill into make the chapels.

Mahogany wainscot runs around the lower perimeter of the screen, along the ramps and stairs. The Reservation Screen was shop assembled as much as possible to lessen the amount of jobsite installation.



Bernard B. Barber Jr. Awards for Excellence for Outstanding Use of Architectural Woodwork

Best of the Best

Sacramento City Hall is a 267,000 square foot complex that houses a large amount of the administrative staff that work for the city. The building is also the meeting place for the Sacramento City Council and other City Advisory Committees. The project gave a facelift to the 95-year-old building that has been designated a historical landmark.

Burnett & Sons was tasked with the challenging job of fabricating and installing the wood panels in the lobby and reception area of the

building. This also included the elliptical reception desk and panels in the two-story elliptical lobby. In addition to the lobby, Burnett & Sons were responsible for the millwork in the City Council Chambers. This included the dais, staffs tables, and wall panels.

The most challenging aspect of the work for Burnett & Sons was the wood paneling occurring throughout the lobby. The wood species selected for the project was highly figured steamed beech with a



Sacramento City Hall, Sacramento, California

Architects: Fentress Bardburn

General Contractor: Hensel Phelps Construction Co.

Fabricator/Installer: Burnett & Sons

fishbone pattern. An enormous amount of veneer was required. This veneer occurred not only with the lobby paneling, but also in the council chambers (dais, staff tables, and wall panels), the revenue counter, planning department counters, and reception counters. Burnett & Son's veneer supplier searched the globe to find enough supply to complete the project.

As specified, the wood panels and doors were architectural blueprint matched. The doors were provided by another subcontractor, which required additional coordination. Because of the limited amount of highly figured beech available, careful layouts, drawings, and cut lists were made to insure the panels and doors would match.



Bernard B. Barber Jr. Awards for Excellence for Outstanding Use of Architectural Woodwork

Although the overall size of the Tamalpais Bank project was small, it had some very unusual shaped fixtures and counter tops. It was built with plastic laminate (LP) covered material. The cylinder shape, plastic laminate covered support leg was only eight inches in diameter and required special tooling to apply the plastic laminate material in that tight of a circle. The artistic shape of the tops required that the blanks be cut on a computerized router (CNC).

One of the unique cabinet features was the LP covered, cone-shaped appendage affixed to one end of the unit. There was a tri-level top on the cabinet as well. The large top was composed of plastic laminate and the other two levels were comprised of two small pieces of stone, one circular and one oval. This cabinet had removable electronic access panels and a stair-step provision for literature with clear plastic uprights embedded in the front of the



Tamalpais Bank, Corte Madera, California

Architects: Russell & Davis

General Contractor: McDevitt & McDevitt Construction

Fabricator/Installer: North Coast Cabinetry

cabinet. The inside of the drawers were lined with black LP.

On the large 'W' shaped reception desk, the architect had two different colors of LP on the counter top. The accent color was an elongated, banana shape that faced the public. On top of the counter, the architect called for a half-inch thick, crescent shaped,

solid glass for the upper level top, supported by steel upright legs. The plastic laminate covered pedestals holding up the counter top were composed of uniquely shaped modules including concave and convex curves. Even the teller line counter top facing the customers was bowed shaped.



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The Ralph B. McClure Craftsmanship Award is given in recognition of those Woodwork Institute member firms that have fabricated and/or installed quality millwork conforming to the Institute's standards. Past winners of the Craftsmanship Awards and entry forms can be viewed on the Institute's website at www.woodworkinstitute.com/awards.

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Ralph B. McClure Craftsmanship Awards for Outstanding Craftsmanship



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The following specification writers and architectural firms have been awarded the Wilbur L. Johnston Award for Excellence in 2005-2006:

Edward J. Cass & Associates
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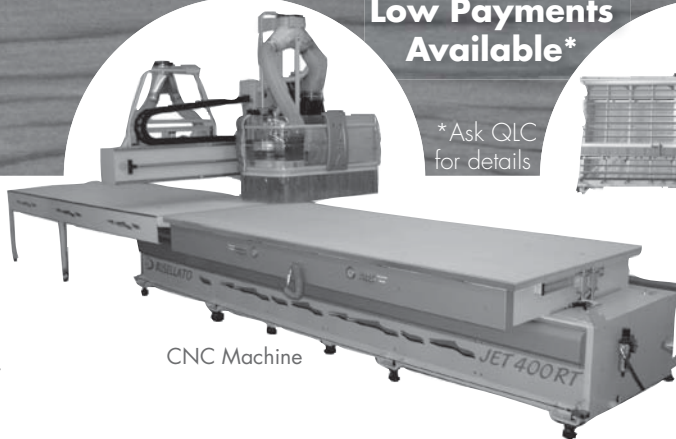
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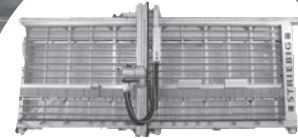
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Design professionals want to ensure the quality of their finished product. Many have found that integrating the *Manual of Millwork* standards into their specifications is a great way to make sure that the shop drawings, fabrication, and installation of their project goes smoothly and is of the utmost quality.

While quality is a major concern for a design professional, cost also comes into play. Many worry that using the *Manual of Millwork* specifications will drive up the cost for the contractors and thereby increase the total cost of the project. The good news is that this is not the case. The cost of specification standards is minimal and well worth the effort.

The cost that a contractor will pay for certification is based on their annual revenue and their membership status with the Woodwork Institute. This allows for smaller shops to get a much needed cost break, and gives WI members an additional membership benefit.

Active Woodwork Institute members are shops which fabricate finished products that are ready for installation. Associate members make products that are incorporated into a finished product. These two categories have slightly different membership dues. Active member dues range from \$500 to \$1,200; associate member dues range from \$500 to \$1,100. The cost of dues is based on the company's annual revenue (see side bar). Members generally count their dues as an annual overhead cost.

Although any company can bid on a certified job, it is more cost effective for members to bid because they receive a significant discount. This discount is reflected in their bid of the project. That is because anyone bidding a job writes the certification fee as a line item into their bid. The cost for a member licensee to certify a job is \$600. It costs a non-member \$1,200 to bid the same job.

Woodwork Institute member licensees are held to the highest standards.

The cost that a contractor will pay for certification is based on their annual revenue and their membership status with the Woodwork Institute.

To become a licensee, shops must meet specific qualifications including:

- Showing evidence of being in the architectural millwork business for at least three years.
- Providing six letters of recommendation with at least two letters from design professionals.
- Agreeing to the Institute's Certificate of Licensing status which binds them to all of the terms and conditions of the Institute. If a company is found to be in violation of the agreement, their membership and licensing status can be revoked.
- Furnishing a valid certificate of workers' compensation insurance coverage when applying for any installation license type.
- Having at least one applicant employee pass a written examination on the Manual of Millwork prior to the Institute conducting any qualify inspections.
- Providing at least three projects for inspection applicable to the license types applied for. When inspected the millwork must meet or exceed Custom Grade.

These requirements allow the architect to be rest assured that the shop drawer, fabricator, and/or installer is qualified to complete a high quality project.

In addition to certified fabrication and installation, Woodwork Institute members also pay a small fee to ensure their shop drawings meet the Institute's standards. Member licensees pay \$150 per shop drawing. a non-member pays \$300 per shop drawing. Again, these costs are built into a bid.

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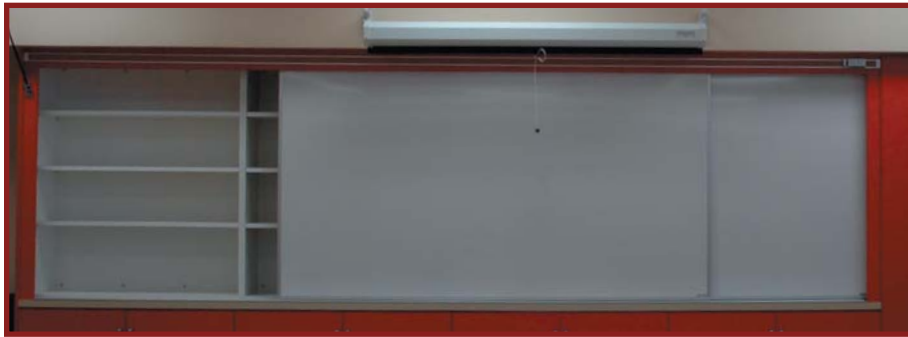
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If you have any additional questions about the cost of specifying a Woodwork Institute project, please contact the WI administrative office at (916) 372-9943. As you can see, quality can be accomplished for a small price, but leads to big returns.

Quick Tip.....



When sliding marker boards are installed in casework or surrounded by other architectural woodwork, it is important that the woodwork not be used to stop the movement of the marker board. A marker board that weighs several pounds acts as a large hammer against the woodwork and will damage it eventually. There has been at least one case where a teacher was injured because the marker board knocked the end out of a cabinet. Specifications for sliding marker boards should include the line:

"A stop shall be provided in the track, or otherwise, so that sliding marker boards do not stop against cabinets or woodwork."



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Follow-Up: More Information on Laboratory Tops

Dear Steve,

After reviewing your article “Lab Tops and their Complications” in the spring/summer 2006 edition of Archetype, I am compelled to recommend retraction of the entire article for the purpose it states—that is to address countertop materials for laboratory application.

The fundamental premise of the article is that “SEFA has developed a system for testing laboratory surfaces.” Your article goes to great extent addressing materials’ usefulness in relation to countertop application in terms of how well each performs under the depicted SEFA test. This articulation includes a huge table illustrating how various materials compare in relation to the SEFA test. However, as it turns out, the SEFA test applied by your article is not intended for, and was never intended for, evaluation of countertops within laboratory environments. Rather, the SEFA test you compare to (though not specifically cited, your article is referring to criteria within the SEFA-8 document) is designed for testing finish applied to casework. Finish applied to casework has very different demands placed upon it compared to countertops (work surfaces) within the laboratory environment.

SEFA actually has a document specifically intended for evaluating countertop materials for use in laboratories yet, within your article designed for just such a purpose, I see this SEFA document referenced neither implicitly nor explicitly. This document is SEFA-3-2003 Recommended Practices for Laboratory Work Surfaces. Within this document is found a multitude of testing criteria useful for evaluation of a wide array of materials used as countertops. Because laboratory environments have an extreme array of needs based on the purpose of any given lab, this document thusly provides a wide array of considerations for design professionals as they contemplate material specification.

This explains what you pose as a deficiency on the part of manufacturers when you write, “Unfortunately, not all manufacturers perform the SEFA test according to the standard.” Since the material you address is not a finish applied to casework then, as countertop material, manufacturers have no reason to test as you suggest; hence they do not test as you suggest they should.

Also, your article is mistaken when it asserts there are only two manufacturers of epoxy resin tops. The glaring omission is that of recognizing Kewaunee Scientific’s product manufactured and sold under the name Kemresin. There are also imported epoxy resin countertop materials available, though our firm has yet to see one comparable with Durcon, Epoxyn, or Kemresin.

My recommendation within this short letter is not meant to criticize the well intention of your article, which is otherwise very well written by the way. I would like an opportunity to discuss my concerns with you by phone, if you so desire.

Sincerely,
Randy Jensen
Vice President
Leonard Peterson & Co., Inc.



Steve Taylor's Response

I would like to thank Mr. Jensen for his knowledgeable response. He is correct that I was in error about the origin of the 48-hour chemical resistance test. The Woodwork Institute adopted the SEFA list of 49 chemicals, and the SEFA one-hour test for vertical and semi-exposed surfaces in laboratory casework. The 24-hour chemical resistance test using the same 49 reagents is a Woodwork Institute standard and is not adapted from SEFA.

Mr. Jensen is also correct in his recommendation of the SEFA-3-2003 “Recommended Practices for Laboratory Work Surfaces.” Selection of lab tops must be based on knowledge of the work that will be done in that laboratory. In addition to chemical resistance, mechanical and electrical properties and resistance to temperature extremes may be important criteria.

The intent of my article was to give a “first look” comparison of the most common lab top materials. One of the things I learned in researching the article is that information is hard to get and not necessarily comparable. Manufacturers of products within each category test different reagents for different time periods. Some manufacturers are not eager to provide information at all (Kewaunee Scientific did not respond to a request for chemical resistance information for this follow up.) It would be a service to the design community if there were a standard test, with results easily available.

A new product has been introduced by Panolam Industries. Their Pionite Chemgaurd product is available in thicknesses from 0.048 inch to 1 inch. The thin material is applied to a core as a high-pressure laminate; thicker grades may be used as self-supporting tops. According to Panolam, their product is a breakthrough in laminate and solid phenolic products. Unlike other products in these categories, the chemical resistance is not confined to a surface layer; the material is uniformly chemical resistant throughout its thickness. Additional information is available at www.Panolam.com.

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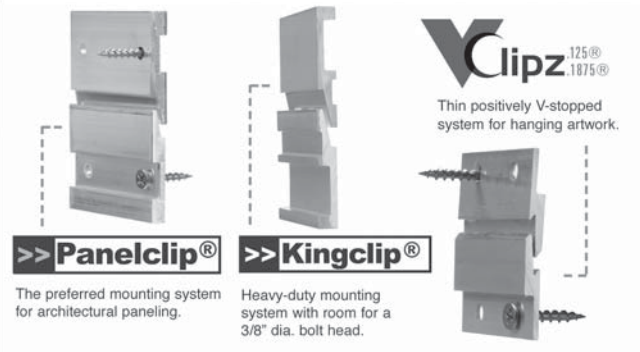
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Woodwork Institute Awards a Record Six Scholarships



*David Fales,
2006 C.E. Bernhauer Jr. Scholarship recipient*

The Woodwork Institute recently awarded the most C.E. Bernhauer, Jr. scholarships in the organization's history. Six students each received a \$1,500 scholarship to use at the college of their choice. The scholarships will help these students pursue their education in the field of architectural millwork.

The 2006 scholarship winners are Matthew Andreasian, Jonathan David Crowder, David Jonathan Fales, Caleb Frame, John Millard, and Thomas W.

Tuck III. They attend schools throughout the United States, including California and North Carolina. Their majors are construction technology, industrial technology, and construction management.

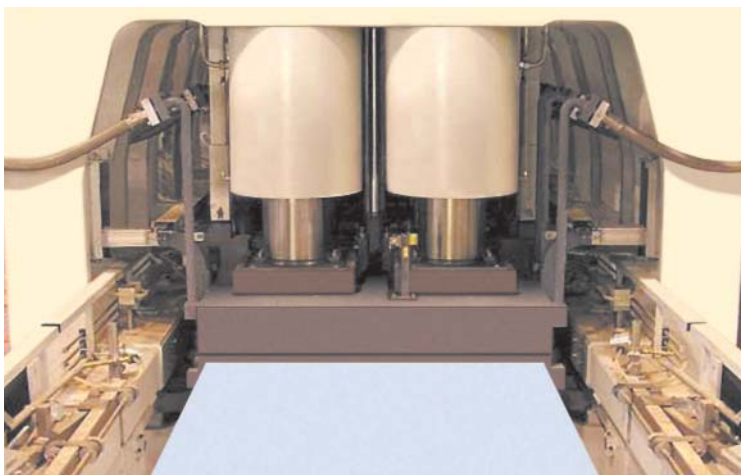
These impressive students are sure to make a mark in the future of the millwork industry. Woodwork Institute CEO Stanley (Rob) Gustafson agreed. "We had a great group of candidates this year," he said. "I was proud to extend the scholarship to six students. I'm confident

they will go onto great careers in the millwork industry."

Established in 1997, the scholarship is named in honor of C.E. Bernhauer, Jr. of the Fresno Planing Mill. Mr. Bernhauer was an active member of the Woodwork Institute and served as the organization's treasurer. He also chaired the technical committee and was responsible for the publication and maintenance of the Manual of Millwork from 1984 until his untimely death in 1993.

Established in 1997, the scholarship is named in honor of C.E. Bernhauer, Jr. of the Fresno Planing Mill.

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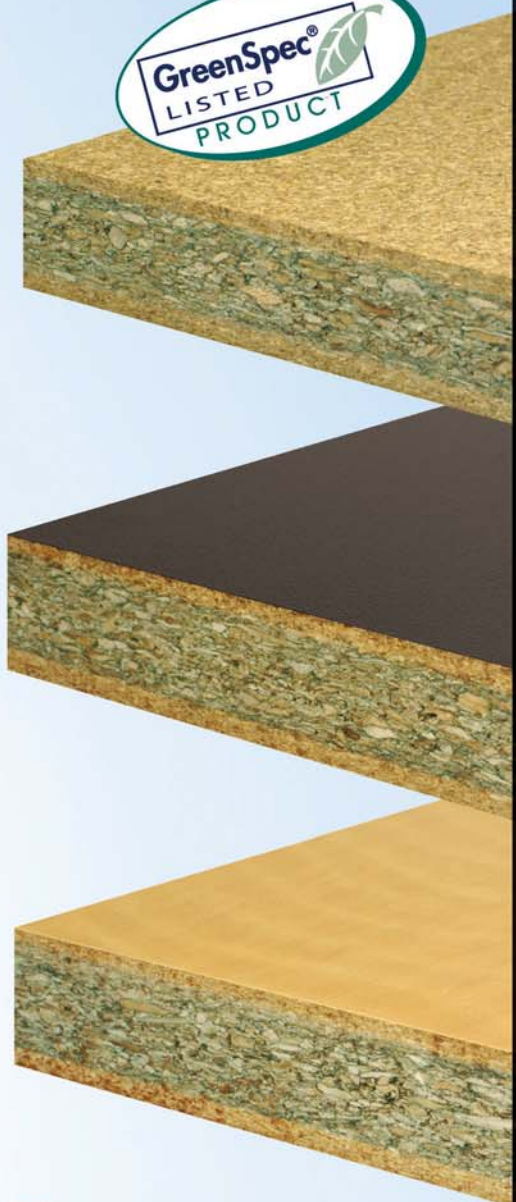
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