ONE DAY, the phone rings and it's a reader asking how to get the clinging, flaking remnants of old white paint off his red brick. There's no easy answer. Another phone call, another day. This time somebody wants to know how to get the romantic, old-fashioned look of clinging, flaking remnants of white paint on red brick, without waiting a hundred years for paint to weather. There's no easy answer.

I THINK the first caller should let time do the job. I understand love of the pristine, the need to "finish" the job. But for one thing, I sympathize with the second caller. I enjoy the imperfection of old things. For another, I've become aware of how downright practical it is to do nothing if you can get away with it. Making things new again is expensive and awful mistakes are made in the name of restoration.

TO GET BACK to exterior stripping: This article will help you decide whether you have to or really want to, and tell you how to do it right if you must.

cont'd on p. 26
Tell Us About Your Favorite Inn
We're Compiling A Unique Inns Guide For Old-House Lovers. And We Need Your Help.

The best way to see old houses, we think, is from a bicycle saddle. And after a hard day of riding, our reward is to check into an old inn or bed-and-breakfast guest house. Invariably, these establishments are run by folks who've fallen in love with the old places—and who are delighted to entertain like-minded guests.

Our favorite is Mountain House. A stone's throw from the Appalachian Trail, it is a survival from the days when Victorian city dwellers fled to the mountains to escape summer heat. Time has pretty much passed by Mountain House. The bathtub is down the hall, and the oak and wicker furniture might be called Spartan. But oh how we love to be there! On summer nights, we'll sit in rocking chairs on the century-old porch with owners Frank and Yolanda Brown, as the cool night air comes tumbling down the mountain.

Mountain House doesn't turn up in most B&B books (not yet, anyway). But you can be sure it will be in our special new Inns Guide.

There have to be lots of other secret places...places whose reputations are local. We want to include them. But we need your help. We've already found a few thousand old inns and guest houses. Most of them are showcase restorations, or are located in well-known resort towns. To find guest houses off the beaten path, we need testimonials from you.

Please let us know about your favorite right away. It may be big or small, built in 1760 or 1920. Your only criterion for submitting should be, "Would I recommend this place to other Old-House Journal readers?"

Of course, if you run an inn or bed-and-breakfast yourself, and you'd welcome other OHJ subscribers, we especially want to hear from you!

That many B&B proprietors are OHJ readers.

Here's what we need to know:
(1) Name of inn or guest house;
(2) Complete address;
(3) Owner's name (if you have it);
(4) Most important, what you think is special about it.

We'll follow up with a detailed questionnaire to the owner. Send your nominations to:
Tricia Martin, OHJ, 69A Seventh Avenue, Brooklyn, NY 11217.

All of us at OHJ look forward to owning copies of the new Guide ourselves—and to sharing it with you!

-- Patricia Poore & Clem Labine

The Old-House Journal
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NO PAID ADVERTISING
When we first moved to Philadelphia in 1969, we bought a house that had been divided into five apartments, then deconverted to a one-family house in the 1950s. We kept up the roof, worked in the garden, and painted the exterior to keep the wood from rotting. That was the extent of our interest in old houses. But, after getting acquainted with The Old-House Journal and reading about how others had restored old homes to their original splendor, we began to think about restoring our home.

The house was very dirty and dilapidated, but it had large rooms and lots of potential. Of course, we started with the major work — new heating system (gas, hot water), new kitchen, floor sanding, and new plumbing and electricity. The house had once been lit with gas, but when we bought it, the dining room, kitchen, middle parlor, and the bedrooms were lit only by bare light bulbs. Over time, we replaced all the bulbs with gas chandeliers adapted for electricity. We were able to buy one large fixture from a neighboring house of the same period, and another from the French Embassy in Philadelphia.

Because the house has two parlors, we decided to turn one into a music room that would accommodate my pipe organ and grand piano. We began by scraping off the layers of old wallpaper. Surprisingly enough, the walls had never been painted! Underneath the paper, the original stencilling, well over a hundred years old, was still visible! Although the stencilling was faded and scarred, the design and color scheme of the original frieze was still visible, enabling us to reproduce it.
Top left: Though faded, the frieze was visible enough to be copied. To the left is the outline of the original mirror. The Widemans were able to replace it with one that fit the outline perfectly. Top right: The stencil was traced, then cut from a sheet of Mylar. Bottom left: Esther puts the finishing touches on the painted ceiling medallion in the music room. The room is large enough to accommodate her grand piano, harpsichord, and 12-foot-tall pipe organ.

Above: The finished ceiling medallion. Esther, who opened an antique shop not long after she and her husband bought the house, has decorated the Italianate twin with period furnishings.

I TOOK ME SEVERAL YEARS to decide to tackle the job, but after I studied several stencilling books and practiced on the back stairway and the hallway to the third floor, I felt competent enough to go to work on the music room. Although the original frieze had been painted in two shades of green, we decided to repaint it in shades of blue. To preserve the original stencil and colors for future owners, we dated a portion of the frieze and papered over it.

I PLANNED ONLY the central portion. I enlarged a classical-style motif resembling a plaster ceiling medallion and painted it in shades of brown. But by the time I completed this, I realized it was too small for the room. I enlarged it and tied in the blue from the frieze with a leaf motif. The small circular tile patterns were inspired by encaustic tiles from an entryway of another old house. The tracery patterns, my own design, were added to enlarge the medallion even further. In the end we had over an 80-inch spread across the center of the ceiling — much more in scale with a 23-foot room than the medallion we had originally planned on!
Above: The stencilling in the entryway was reproduced from ghosts found under old wallpaper. Right: These two photographs, taken in 1922, show the gallery and iris garden that were once located off the middle parlor.

ALL THE FORMAL ROOMS, only the middle parlor had its original mirror. We looked for several years for a suitable mirror for the music room before finding one. Jim had to refinish the frame and buy new mirror glass for it, but it perfectly fit the lines of old paint left around the original mirror. Other interesting features in the parlor include an old pressed-tin ceiling, possibly installed in the late 1880s along with the Lincrusta wainscot in the hallway, which continues all the way to the third floor. The middle parlor also contains the only working fireplace.

ORIGINALLY, the front parlor and all the bedrooms above were centrally heated, through vents in the fireplace, by a coal furnace in the basement. All the mantels in this side of the house are different. The main parlor mantel is made of white marble. The bedroom above the parlor has a painted wooden mantel with an inset mirror. The bedroom above that on the third floor has an Eastlake mantel with inset mirrors and two beautiful tiles showing children at play. This room must have been a nursery. The other parts of the house were heated with coal stoves. The vents for these stoves are still in the fireplace walls.

NOW, RESTORING the finishing touches has become our main interest. We were recently able to buy a documented bedroom and dining room set made by Schindler, Roller and Company in 1869. This furniture was made for Andrew Campbell in Brooklyn, New York, and came to Philadelphia through his granddaughter, who lived in our neighborhood for many years. I had collected marble sinks, tiles, and tubs for several years (I opened a small antique shop around the same time we bought the house), so we now have two finished bathrooms with antique marble washstand sinks, one with a painted bowl. I found a carved cherry armoire with a marble sink in it and had our carpenter install it on a long wall in the dining room with shelving for storage. Although it's not original to the house, it's just the kind of thing that might have stood there originally.

FOR US, THE HIGH POINT came when our house was shown in the Philadelphia Inquirer magazine section last year. The color photograph showing the two of us relaxed in the music room reflects very little of what our lives have really been like the past few years! Now we don't just "keep up" with the roof or the outside paint job -- the house is a major part of our lives. We still have work to do -- Jim is currently restoring the original standing-seam metal roof with the help of a local roofer -- but we have begun to enjoy having guests for the first time since we bought it six years ago. The house was seen by over 500 people during the Philadelphia Open House last year, and we recently entertained the Philadelphia Chapter of the Victorian Society in America at a musicale. These events, and others that I hope to plan, are my dream come true for this old house.

Jim and Esther Wideman on the porch of their 1861 Italianate villa.
My Old-House Discovery:
The Screw Gun

by Jonathan Poore

Have you ever tried to nail a Sheetrock patch into a hole in an old plaster ceiling? Even if you've neatly cut back the loose plaster to the nearest joist, you end up with a face full of plaster dust and debris, because the hammering causes the surrounding plaster to crack, crumble, and fall. By the time you get the Sheetrock patch secured, you have a bigger hole than before, and the debris caught behind the Sheetrock keeps it from laying flat.

The solution to this problem, I've recently discovered, is to use a screw gun. What a find! Contractors take this tool for granted, but a lot of homeowners haven't even heard of it. Some people assume it's like a nail gun, but the two tools are totally different. A nail gun literally shoots nails, and so can be very dangerous in an occupied building or in the hands of someone who doesn't know what he or she's doing; a screw gun drives screws in a completely safe and controlled manner.

Basic ally, a screw gun is an electric-powered screwdriver. It resembles a common variable-speed electric drill, except for one important difference. At the business end of a screw gun, where the chuck for the drill bit would be, there's a magnetic screwdriver bit surrounded by a little sleeve. By adjusting the sleeve in or out, you control the depth to which the screw is driven. This screw bit turns only when pressure is applied to it. When the screw has been driven in the desired distance, the sleeve bottoms out, releasing the pressure on the bit. This allows the motor to spin free without driving in the screw any further.

Besides controlling the depth to which the screw is driven, the clutch mechanism spares the motor from being forced to a grinding halt whenever a screw has reached its proper depth. Because it can spin free, the screw gun motor isn't continually stalling, which would cause it to burn out prematurely. So even though it's possible to use an electric drill as a screw gun, you'd be letting yourself in for a lot of problems: You'd have to control depth by eye, and the continual stalling would be bad for the motor.

There's yet another advantage to a screw gun: It's reversible, so you can take the screw back out just as quickly and easily as it was put in.

Screw guns were designed as a contractor's tool, intended for fastening Sheetrock to metal or wood studs. The depth adjustment allows the screw to countersink itself just barely below the surface of the Sheetrock without breaking the paper. The screw gun can rapidly and consistently drive many screws to the same depth without breaking through the paper face. And because its magnetic tip holds the screw in place, you can operate a screw gun with one hand. When you add to its speed and convenience the fact that there's no hammer impact to jar or damage fragile plaster or woodwork, a screw gun becomes a real asset in working on an old house.

It's impossible to name all the old-house applications of a screw gun, but here are just a few:

1) Plaster to Wood Lath

Used in conjunction with plaster washers and Sheetrock-to-Sheetrock screws, a screw gun can refasten plaster that has separated from its wood lath. (The coarse threads of these screws hold very well, even to wood lath.)

2) Plaster and Wood Lath to Joists or Studs

Plaster washers and slightly longer screws (generally available with conventional threads...
only) can be used to rescue plaster and lath assemblies that have separated from joists or studs.

![Diagram: Plaster & Lath Assembly]

3) SHEETROCK PATCHES

The screw gun can be used with conventional sheetrock screws to fasten sheetrock patches. The surrounding (existing) plaster can be secured first, using the methods described above. The sheetrock patch can then be fastened with the screw gun. There are several major advantages to using a screw gun for this process:
- No hammering is involved.
- You can fasten the sheetrock to the lath in areas where there is no stud or joist.
- If you misalign the level of the patch with the adjacent plaster, the screw can be backed out instantly, so the patch can be shimmed or trimmed to make it align properly. If the patch had been nailed in place, you'd have to tear out the sheetrock (destroying it in the process) and start over.
- A screw gun enables you to do a major sheetrock patching job quickly; the more extensive the work, the faster the screw gun pays for itself in time saved. It doesn't pay to buy a screw gun to put in one sheetrock patch, but if you're rescuing plaster and installing sheetrock patches in several rooms, a screw gun is a sensible investment.

4) FURRING OR LAMINATING OVER CRUMBLING PLASTER

Occasionally you may have to cover over a badly deteriorated plaster surface by installing sheetrock, stamped metal ceiling panels, or the like. (It's usually better to remove the existing plaster first, but that can be a very messy demolition job.) Whether the new materials are to be applied over furring or laminated directly to the plaster, a screw gun is essential. It can fasten furring without causing the plaster to crumble any further. If sheetrock is being installed, the screw gun makes for a fast, neat job, because the plaster won't be disturbed by any hammering. (A metal ceiling must be nailed to the furring, but the nails are so small they don't require heavy pounding to drive them.)

5) REPAIR OF OLD BUILT-IN-PLACE CABINETWORK

Built-in cabinets in old houses were most often actually built in place rather than fabricated somewhere else. This makes them subject to the movement and deterioration of the surrounding plaster and lath. Repairing an old cabinet with hammer and nails can often knock the cabinet apart even more, as well as damage the surrounding plaster. Screws will hold much better than nails anyway, and a screw gun can make internal repairs in the cabinet and also resecure it to the wall. (Hardwoods often need to be pre-drilled to avoid splitting, but that's often the case with nailing as well.) Slender finishing screws with small heads can be used in areas which might show.

6) MISCELLANEOUS NEW WORK

A screw gun is good for installing nailers for new shelving and cabinetwork on existing plaster. It's also excellent, both for speed and strength, when assembling plywood cabinetry, such as kitchen cabinets.

THERE ARE many different screw sizes and types available for use with a screw gun.

A) The most common type of screw is a standard drywall screw with a sharp point (for puncturing the paper face on sheetrock) and threads designed to go into wood. These screws are available from 1 to about 3 inches in length.
B) The self-tapping screw with a round head, sometimes called a 'teks' screw, is used for joining light-gauge metal studs together.
C) The self-tapping screw with a flat head is used for fastening sheetrock to light-gauge metal studs.
D) A sheetrock-to-sheetrock screw is a fairly specialized variety of fastener, but it has many applications in an old house (as discussed above).
E) A finishing screw should be used only on woodwork, because the head is so small. If it were used on sheetrock, the head would pull right through the paper face.

THE SCREWDRIVER TIP on the end of the screw gun is replaceable. Several tip sizes are available to match the screw being driven. For example, a finishing screw takes a smaller tip than a regular drywall screw. The tips also eventually wear out, and can be replaced easily by just pulling out the old one with a pair of pliers and slipping in the new one. It's usually a good idea to keep a few spare tips on hand in case one gets damaged or excessively worn.

IT TOOK ME A WHILE to decide to get a screw gun because, like any good power tool, it's expensive. But now I'd never be without one again! It's a tremendous time-saver.

CONSIDERED a contractor's tool, high-quality screw guns are not generally available at hardware stores. Therefore, we're offering our readers the screw gun chosen and tested by the author. See the inside back cover of this issue.
When we bought our 1880 house, its five coal-burning fireplaces were all in terrible shape -- and that's including the ones that hadn't been bricked up or used to vent gas space heaters in the bad old days when our home was a rooming house. Our insurance agent looked things over, shook his head, and wrote a special clause in our fire policy, one that voided it if we used the fireplaces.

The next few years were very frustrating. Fireplaces dominated every room, and it offended us that they weren't functional. To make them safe and bring them up to modern building codes, they'd have to be made deeper, which meant obliterating the original hearths and plaster mouldings above the mantels.

That option was unacceptable to us. There seemed to be no way out, until a friend of mine brought me The Collected Works of Count Rumford. I read it, and in a blinding flash I had the solution: Rumford fireplaces. They're tall, graceful, and above all shallow. They'd fit perfectly within my fireplace openings; all I'd have to do is change the insides of the fireboxes.

Count Rumford, an American, developed his fireplace in England around 1795. He understood that fireplaces produce radiant heat, and came up with a design to take advantage of that effect. His fireplaces were shallow, with widely angled covings and light-colored masonry materials. He experimented with the shape of the throat "to find out and remove those local hindrances which prevent the smoke from following its natural tendency to go up the chimney."

Rumford rounded the breast and reduced the size of the throat to a narrow slit. The throat is streamlined, measuring only about 1/20th the size of the fireplace opening. It forms a nozzle through which the smoke and air flow at an increased speed, and acts like a check valve against backdrafts.

"We live in an 1880 vintage Queen Anne Stick-style brick Victorian Italianate house, if you can imagine that."

The accepted authority for fireplace design today is the American Society of Heating, Refrigeration, and Airconditioning Engineers Handbook. This book states that a modern fireplace requires a flue at least 1/12th the size of the fireplace opening. If a damper is...

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used at the throat, the ASHRAE Handbook recommends it be twice as big as the flue — that's about four times as big as a Rumford throat. No wonder modern fireplaces are inefficient: With their square lintels and sharp angles, they have to be deep and have gaping, oversized flues to keep them from smoking.

How To Rumford-ize A Fireplace

The more I read Rumford's works, the more convinced I became that they offered the definitive fireplace design. So I went ahead and built a Rumford in my house. I've since done many more, and want to share what I've learned with the readers of OHJ. Construction requires several refractory materials that are not commonly used by homeowners or home-improvement contractors, but they're generally available from firms such as plibrico and A.P. Green. I use a 2000-degree, insulating castable refractory cement for casting the throat and smoke chamber, and 3000-degree refractory for some fireplace subfloors. I've found that I can mix refractories in a 5-gallon plastic bucket, using a 1/2-inch drill with a drywall mixer blade. It pours easily with the aid of a metal scoop.

I always dig out the firebox floor and replace it with 3000-degree castable refractory. Refractory cement is made in a wide range of insulating capacity and density — the more insulating capacity the cement has, the softer it is. So, if there's any wood within 4 inches of the hearth extension, I pour a fireplace subfloor of softer 3000-degree refractory cement, then pour a denser refractory floor over that. The finish floor of the fireplace needs to be relatively hard, because it will be subjected to such abuses as pokers and falling embers.

Author Jim Buckley poses with the tools for the job. Left to right: half-inch drill with drywall mixing blade, bucket of refractory mortar, throat form with wooden blocks, firebrick and grate, smoke chamber form with bottom and legs, and 8-in. stainless steel flue pipe with metal-cutting saw.

Pour the smoke chamber next, because you have to be able to get the form out the bottom. My plywood form is fitted to the inside of the firebox; it is about 18 inches wide at the base, 24 inches high, and 6 inches deep. It forms 1-inch-thick front and back walls in an 8-inch rough smoke-chamber opening (a standard size here in Columbus). A platform that just fits the rough opening (usually 8 inches by 24 inches) holds the form in place on wooden legs, 10 inches above the firebox lintel.

Using the metal scoop, pour the 2000-degree, insulating refractory through a hole in the wall, located just at the top of the form. The mixture has to be wet enough to fill voids, but not so wet as to compromise its...
HAVING LIVED with Rumford fireplaces for a while, I feel compelled to tell you how wonderful they are. (Of course, I'm not biased!) Our brick Victorian house always felt cold when the outside temperature was low, even though the furnace kept the inside air temperature a constant 65 degrees. Brick is poor insulation, and so our wall temperature was usually about halfway between the 65-degree inside temperature and the cold outside temperature. When it got to be zero outside, the walls would be only about 35 degrees, and we'd feel cold.

RUMFORD first articulated the concept of radiant heat: "One must never forget that it is the room that heats the air, and not the air which heats the room." In other words the radiant heat from the fireplace heats people and surfaces such as the wall across the room. SupPLEMENTING our heat with fireplaces that warm us directly and keep our walls warmer, we now can feel comfortable even at 60 degrees. It's like being in the sun on a 60-degree spring day. It feels warm, but step into the shade -- or in this case, the next room -- and 60 degrees feels cold.

PEOPLE OFTEN want to compare fireplaces with stoves. Stoves are basically air heaters, so you rely on convection to help heat adjoining rooms, or you can use fans to circulate the warm air much like a warm-air furnace does. Fireplaces, however, heat only what they 'see'; you can't pump 60-degree, warm air to help heat a 60-degree, cool adjoining room. On the other hand, you can't lose radiant heat through infiltration or convection.

SO IF YOU LIVE in a big, drafty brick house with high ceilings, and the kids and cats are going in and out all the time, a Rumford or two (or five) may be the secret to preserving your wintertime comfort.

strength; try making it just a little too wet to make a ball and hold in your hand. The material should be just barely pourable; if your mixture's too thick, it won't pour evenly; too thin, it pours too fast. (To be perfectly honest, I wasted a lot of expensive refractory in my experiments with mixing consistencies and setting times. I even had to burn out my first smoke-chamber form because I left it in too long and couldn't get it out.)

THE INSULATION VALUE of the refractory is necessary if your smoke-chamber walls are only 4 inches thick, so that the heat transfer through the casting and 4 inches of brick is equivalent to the 8-inch walls required by most codes. After about three and a half hours, pull the form. (You might have to use a hammer to get it down and out through the hole.) Do it too soon and the casting will fall apart; too late and you'll have to burn the form out. (Charcoal applied to the top of the form works best because it burns down.)

The Floor And The Throat

WITH A SHOP PENCIL OR CHALK, draw the firebox plan on the refractory floor. For fireboxes up to 28 inches wide, I use 1-1/2 standard firebricks per course for the back and both covings. (A standard firebrick measures 4-1/2 inches by 9 inches, which makes each course 13-1/2 inches long.) Using a level, lay the firebrick with fireclay mortar.

THE FORM FOR THE THROAT uses 24-gauge sheet-metal for the curved part. (Construction of this form is time-consuming because of the
The firebox requires only 1½ firebricks for each course. Note the thinness of the joints; the excess fireclay mortar will be washed off after the firebox has been completed.

The casting may also need a little cutting and trimming with a trowel to make a smooth transition with the firebox and to make sure the throat is well formed.

MAKE A DAMPER out of a 3/16-inch-by-3-1/4-inch-by-16-inch steel plate; fasten a steel bar handle to it with a cotter pin. (You can also have a metal worker fabricate a conventional damper, one hinged to a metal frame). The damper can be inserted through the throat and a mortar ledge formed of refractory cement, so that the damper can open up and back, as if it were hinged at the back to the smoke shelf.

The flue requires only m firebricks for each course. Note the thinness of the joints; the excess fireclay mortar will be washed off after the firebox has been completed.

For the smallest part at the top, the throat must be 1/20th of the area of the fireplace opening. For a 20-inch-wide fireplace with a 13-1/2-inch back, the throat is 13-1/2 inches wide by about 2 inches deep. For a 28-inch-wide fireplace (still with a 13-1/2-inch-wide back), the throat is 13-1/2 inches by about 3 inches. The form must also be short enough so that when its supporting platform is taken away, it can be dropped down about a foot and removed.

INSPECT THE THROAT FORM up into the firebox. (It will extend a bit into the smoke chamber -- see drawing.) Positioning it somewhat toward the front of the smoke chamber's opening will make it easier to get the damper in later. Make sure the form fits tightly against the firebox on all three sides, and that the bottom of the form is lined up precisely with the bottom exterior edge of the fireplace. Pour the refractory to the top of the form so that the two castings overlap.

Pull the form after about three and a half hours. Sometimes it's hard to get the refractory to fill the entire breast area, or it fails when the form is removed. But it usually can be patched with the same refractory, using a trowel. The casting may also need a little cutting and trimming with a trowel to make a smooth transition with the firebox and to make sure the throat is well formed.

MADE A DAMPER out of a 3/16-inch-by-3-1/4-inch-by-16-inch steel plate; fasten a steel bar handle to it with a cotter pin. (You can also have a metal worker fabricate a conventional damper, one hinged to a metal frame). The damper can be inserted through the throat and a mortar ledge formed of refractory cement, so that the damper can open up and back, as if it were hinged at the back to the smoke shelf.

Flue Facts

FOR THE FLUE, I use either modular, 8-inch-by-8-inch, clay-tile flue liners or 8-inch, rigid, 24-ga., stainless-steel flue pipe. With clay-tile liners, I like to fill voids between the tile and brickwork with insulating castable refractory; leaky butt joints and random air spaces scare me. Stain-

Safety Considerations

HERE are three national model codes in the United States. Most state and local codes are based on them, and they're all pretty much the same when it comes to masonry fireplaces. They aren't written with Rumfords in mind (because they require deep fireboxes and large throats), but they should be followed in safety-related matters. The law, your insurance coverage, your house, and maybe even your life may depend on your building a safe fireplace that meets code and gets a building permit.

GET A COPY of your state or local code and become familiar with it. In old houses, wood framing generally isn't kept 2 inches away from chimneys, as is now required; smoke-chamber walls and sometimes the firebox walls and heart aren't as thick as required. The original gas-burning fireplaces in some houses are totally unsafe for woodburning. (I have found wood joists running into the flue, tile hearths laid right on wooden floorboards in the firebox, and paper and wood trash behind the masonry.)

— Jim Buckley
Less steel makes an excellent flue because it's smooth and round, and has lapped joints. Just make sure you get the male ends down so that any creosote dripping down the pipe stays inside the flue. As an added precaution, because wood framing is often right up against old chimneys, I pour insulating castable refractory around the outside of the pipe, filling the voids.

You can use a clay chimney pot to finish off the chimney. Sometimes a 40-foot-high chimney that's 12 feet above a steep slate roof can be pretty scary. But the view's great! Figure out the type of scaffolding and safety harness arrangement that's safest for your situation, and use it.

Satisfying The Codes

After I finished my first fireplace, I named it the "Victorian Rumford Compromise." After all, it was somewhat anachronistic to put a 200-year-old fireplace in a 100-year-old house. And besides, I built it about 12 inches deep, rather than Rumford's recommended one third of the width, because it was only 20 inches wide.

Despite the benefits of Rumford's design, most building codes require fireplaces to be 20 in. deep. I did some research and learned that this requirement was adopted in the 1940s, more or less arbitrarily, as a guide for the builders who rarely had engineers or architects designing their fireplaces.

To get the required building permit, I had to appeal to the Columbus Building Regulation Commission. First I had to satisfy them that I understood the code and that my fireplace complied with all the safety-related issues. Then I argued the differences in the Rumford design, showing that the heat transfer through my insulating, refractory-lined smoke chamber and 4 inches of brick would be as safe as that of the 8-in. walls required by the code.

To make a long story short, the entire commission gathered early one July morning in 1982 for a burn-in. They were well pleased with the demonstration, and I went into the business of building Victorian Rumford Compromises for other old-house owners.

Since writing this article, Jim has begun building modular components of the Rumford fireplace in his shop, to reduce the time and labor required for installation. Now these all-masonry Rumford components (firebox, throat with damper, & smoke chamber) can be custom built and shipped with detailed installation instructions to contractors and homeowners anywhere. Call or write Jim Buckley at Flue Works, Inc., 86 Warren St., Columbus, OH 43215. (614) 291-6918.
In the well-manicured neighborhoods of many cities, amidst the becolumned Neo-classical homes of the well-to-do, there is often one oddball house—a house with a flat roof, curved glass walls, and, most obviously, no hint of classical architectural details like columns and pediments.

Though many people believe these houses were built around the time of the Apollo moon landings in the 1960s, they were actually built closer to the time of Buck Rogers' comic strip space travels. These are 1930s houses; examples of the style that was called, at that time, "modern" architecture. Today, we call the stark, unadorned (and usually white) ones International Style. We call the jazzy, whimsical ones Art Deco.

Art Deco gets its name from an international exhibition of industrial design, the Exposition des Arts Décoratifs, held in Paris in 1925. This exposition focused attention on a new design aesthetic that featured elements of Egyptian, Aztec, and Mayan art, as well as stylized low-relief figures, and Cubist-influenced geometric designs. The idea was to combine these ideas in new ways, and use machine-age materials to create a fresh, eclectic, "moderne" look that had no historical antecedent. The moderne look caught on in a big way in the 1920s and 1930s, though the term "Art Deco" didn't catch on until the 1960s.

Art Deco architecture is a familiar part of the American cityscape; almost everyone is aware of the Empire State Building. And most of us have been in an Art Deco movie theater, or have passed an Art Deco roadside diner.

But how was the Art Deco style applied to residential architecture? First, in the shapes of the houses: Art Deco houses invariably have flat roofs. Visual emphasis in Deco residential architecture is most often horizontal, rather than vertical, as is the case with Art Deco skyscrapers. (This horizontal, streamlined look is typical of the Art Moderne subgenre of Art Deco architecture.) Many of the corners aren't square in a Deco house; the exterior and interior walls are often rounded into curves. Staircases usually curve, too.

Machine-age engineering brought new materials and new shapes to Art Deco houses, the same way the invention of the circular saw allowed changes in the shape of 19th-century buildings.

Two newly-manufactured materials, colored structural glass sheets (sold under the trade names Vitrolite and Carrara Glass), and translucent glass block (sold as Insulux) were very popular in Deco houses.

Many elements of the Art Deco skyscraper style are evident in this ca. 1930 house. The smooth facade, the narrow casement windows, and the flat roof are all characteristic of the style. The most striking Art Deco feature, though, is the repeating low-relief design on the bay window spandrels. This four-storey house displays much more vertical emphasis than later, streamlined Deco houses.
This rendering of a 1931 house shows some Art Deco design elements - a streamlined, horizontal visual emphasis, a large expanse of glass in a curved exterior wall, and a fanciful spiral staircase.

LARGE EXPANSES of glass block were common; these window-walls allowed light into the house without sacrificing privacy. A favorite placement was in the curve of an outside wall, especially the wall adjacent to the staircase. Operating sash were often factory-style casement windows, and "porthole" windows were common. The porthole windows, along with tubular steel railings, combine to give some of these streamlined houses a nautical look.

THE MODERN 1930s SURFACE FINISH was flat, simple, and easy to keep clean. In keeping with this, exterior walls were most often stuccoed, though they were frequently a light-colored brick or, in some instances, painted brick. Interior walls were plaster, though kitchen and bathroom walls were often overlaid with ceramic tile or, in some instances, structural Vitrolite or Carrara Glass.

THE ART DECO AESTHETIC of using new machine-age materials in unprecedented ways is most evident in the interior of these houses. In a 1935 Architectural Record article, J.E. Burchard stated: "Early modern houses were created principally for a well-to-do intelligentsia and gave rise therefore to the impression that opulent exotic woods and gleaming unusual metals were the essence of modernism, were indeed necessary to make otherwise simple designs bearable." Interior appointments in Deco houses range from grand to glitzy to kinky to undeniably tacky.

STAIRCASES ARE THE VISUAL FOCUS in many of these houses; many Deco design elements are brought together here. The stair tower illustrated on this page is a monolith of reinforced black terrazzo, poured and polished in place, with nonslip carborundum treads. The rail is brush-finished aluminum. The stair is incorporated into a curved, glass-block wall, and the stairwell curtain is a yellow antique satin. Quite an eclectic, "moderne" mix.

Art Deco buildings often exhibit a strong visual emphasis on the entryway. The curved walls flanking the entrance of this small apartment house guide the eye to the double doors. The large expanse of glass block in a curved outside wall is another Deco feature.

The quintessential Deco stair tower - a sweeping curved staircase surrounded by a wall of glass tower. The stair is poured-in-place black terrazzo, with carborundum treads and an aluminum rail . . . very early high tech.
This Deco house has a central glass atrium -- you can look right through to the back yard! The long, low lines and the nautical look of the house give the impression of a submarine surfacing.

This period room, with its multi-colored tile floor and Cubist-inspired furniture and lighting fixtures, is a showplace of Art Deco design. The fireplace is typically simple and unadorned, but there is nothing understated about the multifaceted mirror overhead!

DECO FIREPLACES represent another departure from earlier traditional designs. Just as you won't see classical columns on a Deco house facade, you won't see columns on the fireplace surrounds. No triglyphs, gargoyle, or carved mouldings, either. Most Deco fireplaces are merely rectangles cut into the wall, with simple structural glass, marble, or metal hearths and surrounds; though there are some zippy designs with angular mirrors built into the surround. Most of these fireplaces have no mantel, or utilize the projection of the surround as a mantel.

IN ANY DECO HOUSE, one notices the unusual uses and arrangements of materials. The interior designers loved slick, shiny surfaces; and in some houses, the baseboards are glazed ceramic tile. Multi-colored marble or tile floors are common, as are two- and three-color tile or structural glass walls (especially in bathrooms). Some Deco houses have tile-floored rooftop sundecks, complete with rooftop fireplaces! The simple, angular geometry of the Art Deco style also found its way into garden and terrace designs of the period.

THOUGH ART DECO HOUSES are not as numerous or as obviously "old" as earlier types of houses, they do represent a definite architectural style, as well as a cultural phenomenon of the not-too-distant past.

ART DECO WAS THE LAST architectural style to encourage the use of ornamentation and decoration in buildings; some people say it was the last architectural style. By almost any measure, Art Deco was the last style to acknowledge the need for beauty, or at least the need for a sense of humor, in architectural design. These houses, which are so often egregiously altered due to their relative "newness" deserve the same attention, respect, and protection as our older (but no more historic) houses.

A house grown from crystals? This prismslike quality is often seen in Deco artifacts (graphic art, jewelry, glassware), but not so often in the houses of the period.

Special thanks to James Draeger (a true fountain of Deco knowledge), Amanda Gross, and Mark Sturtevant. Without their special insight and hysterical approach to historical research, this article might have been possible, but not nearly so much fun.
CARE OF PIGMENTED STRUCTURAL GLASS
(Vitrolite and Carrara Glass)

PIGMENTED STRUCTURAL GLASS was first manufactured in 1900, but it enjoyed its greatest popularity during the height of the Art Deco style period, the 1920s and thirties. This glass, sold under the trade names Vitrolite and Carrara Glass, has not been manufactured for several years.

WHAT DO YOU DO if the pigmented glass in your Deco house needs repair or replacement? The National Park Service's Preservation Brief 12 offers the following suggestions:

REPAIR OF CEMENT JOINTS (the equivalent of grout joints): Re-'grout' with modern silicone joint cement, color-matched to the original by mixing the compound with tinted polyester resins.

PATCHING CHIPS OR CRACKS IN THE GLASS: Use solvent (methyl ethyl ketone, methyl isobutyl ketone, or acetone) applied behind the glass with a syringe, then gently pry off the glass with a broad, flat tool (such as a nail-puller). Or, apply solvent, then use piano wire to saw the glass loose. CAUTION: THESE SOLVENTS ARE EXTREMELY FLAMMABLE, AND THEY IRRITATE THE SKIN. STORE THE SOLVENTS IN FIRE-SAFE CONTAINERS, AND WEAR RUBBER GLOVES AND GOGGLES WHEN YOU WORK WITH THE SOLVENT.

REINSTALLATION OF GLASS PANELS: Clean the glass and the underlying substrate of dirt and old mastic, then reinstall the glass, using: (a) a modern silicone mastic, for small applications (large quantities of this mastic are quite expensive), or (b) hot-melt asphalt mastic (this is the material used to install structural glass in the '20s and '30s).

REPLACEMENT OF MISSING OR DAMAGED GLASS PANELS: It's worth a try to call local "jobbers" to find out if they have any old structural glass in their inventories. If no one has any old glass, you must...

SUBSTITUTE MATERIAL FOR MISSING OR DAMAGED GLASS PANELS: A new product, "spandrel glass," marketed under the trade names of Spandrelite and Vitrolux, is the closest thing to the genuine article. It is available in several colors. Other options: Paint the back side of a piece of plate glass to match the color of the existing glass; or try appropriately colored plastic.

MODERN GLASS BLOCK

GLASS BLOCK, in sizes and patterns matching most of the 1920s and thirties block, are still available from:

Pittsburgh Corning Corporation
800 Presque Isle Drive
Pittsburgh, Pennsylvania 15239

Write for a current brochure and installation specifications.

These six glass block patterns are available from Pittsburgh Corning.

Kitchen and bathroom details from the 1937 Vitrolite catalog. Note the use of glass blocks in the bathroom wall.
NEVER BEFORE in the history of American design had so many forces come together to create such an all-encompassing art form. The exuberance of the 1920s, the Paris Exposition des Arts Decoratifs, and machine-age, mass-production capabilities combined to make Art Deco the first real wave of industrial design. During the height of the Deco period, objets d'Art Deco could be found in every room, closet, and cabinet of an Art Deco house. In fact, the rooms, closets, and cabinets themselves might have been high-style Art Deco. The style touched everything from knick-knacks to floor wax, lipstick to locomotives.

DECO KITCHENS often look like they were designed in wind tunnels. The walls, the counters, the furniture, the appliances all appear to be built for speed. Raymond Loewy (the man who designed the Studebaker Avanti) designed refrigerators for Sears. General Electric made Art Deco waffle irons. The Saunders company marketed a two-tone solid Pyrex laundry iron, aptly named the "Silver Streak." Stoves, blenders, juicers, even tables and chairs looked like they were designed for aerodynamic efficiency.

The triple-streamlined central bay of this 1930s trendy trailer shows how moderne design elements found their way into almost everything. (The two outer bays fold up for transport.)

Two hot irons of the period. Above is General Electric's Art Deco waffle iron. At right is Saunders Company's "Silver Streak."
Though dining room decoration was usually restrained even in houses of the Art Deco period, some snazzy details slipped in. There is nothing traditional about this Formica-topped table, or the "moderne" chairs. 

BATHROOMS WERE ANOTHER gleaming, slick, streamlined showcase for Art Deco residential architecture. In Libbey-Owens-Ford's 1937 Vitrolite catalog, the writer says of kitchens and baths: "Upon no other rooms in the modern home have architects and manufacturers of fixtures and equipment lavished more attention. Thus we have today kitchens and bathrooms furnished with fixtures, cabinets, utility equipment and accessories, all reflecting a high degree of beauty and mechanical perfection." High-contrast, multi-color patterns in Vitrolite and ceramic tile are characteristic of the Deco bath. Bullet-shaped faucet handles, angular shower heads, and mechanical-looking medicine cabinets are common. Robe hooks look like Klingon space cruisers.

Above: The alternating horizontal bands of Vitrolite are pearl grey and Chinese red. The shower curtain is silver metallic cloth. Fixtures have red plastic handles. Below: A typical use of glass block in the bath.

A Vitrolite catalog bathroom. The tub surround is imitation marble Vitrolite; the walls are pale yellow.
The designers of this Art Deco recreation room went for the full effect: Vertical and horizontal tube lights, a stylized fountain on the bar, feline-skin upholstery. The cocktail-glass pattern set into the Formica floor exemplifies the fascination post-Prohibition designers had with cocktail paraphernalia.

DINING ROOMS were the most traditional room in the house, but some homeowners couldn't resist the urge to dine around a chrome-and-glass, or chrome-and-plastic, table like the one shown on the opposite page.

The designers of the era were fascinated with cocktail and smoking paraphernalia. So what better room to make into a true Art Deco showcase than the recreation room? The rec room shown on this page is a fine high-style example: Tube lights! Leopard-skin upholstery! A stylized fountain painted on the bar! But the true Art Deco decadent indulgence is on the floor -- a varying cocktail-glass pattern set into the Formica! A 1935 Bakelite ad shows an entire rec room made out of Bakelite plastic products. Not the homely brown Bakelite that electrical plugs are made of -- but the swirly, marbled, iridescent Bakelite that was used to make the colorful, snazzy (and now quite valuable) radios shown on this page.

No room was untouched by the Deco design influence. The bedroom suite shown at right is made of burl maple, with a white and brown enamel contrasting finish on the drawers and doors. The 1937 Vitrolite catalog shows some "modern furniture" made with Vitrolite.

Art Deco lamps, glassware, silverware, and clothing (cocktail dresses, of course) are fairly common sights in antique stores around the country. The furniture, and the architectural pieces are less common. If prices and availability are any indication, then Art Deco pieces of all types are enjoying a new popularity.

We hope some of these pieces are being snapped up by owners of Art Deco houses who are decorating their houses in the original style.
Two Helpful Products

THE SCIENTISTS at Forest Products Labs (USDA) in Madison, Wisconsin, suggest using a thick oil primer coating, one "heavy enough to cover the grain" on exterior wood, followed by two coats of latex. They say it'll give you a ten-year (or more) paint job.

Charles W. Wilson
Mechanicsburg, Penn.

A Soldering Shortcut

IN RENOVATING an old townhouse, I had to put a shutoff valve in a vertical waterpipe that ran from the basement. I shut off the water supply to the pipe, went to the top floor, and ran the fixture for this water line. Then I went back to the cellar and cut the half-inch copper water line. The remaining water in the line began dripping into a bucket I'd positioned below the pipe, and I decided to have a cup of coffee and wait for the drip to stop.

AFTER FINISHING my coffee and one-too-many doughnuts, I returned to the pipe and saw that it was still dripping. This was an old building with many branches of water lines running in the walls for all four floors -- a fixture somewhere was continuing to release water. I waited a few minutes, but the water kept on coming. Against my better judgment, I went ahead and soldered the shutoff valve into the moist water line. Needless to say, the slight dripping of water spoiled my soldering, and the joints leaked when I ran a test on it.

I DECIDED TO BACK OFF and give the problem some more thought. Regretting having ever started this "easy" project, I was having my third cup of coffee when my attention focussed on the partially eaten doughnut in my hand. Eureka! If the doughnut could soak up the coffee, why couldn't it soak up the drip?

INSTEAD OF WASTING A GOOD DOUGHNUT, I plugged the drip with rolled-up bread, using a pencil to force it into the vertical section of the pipe. Then I quickly assembled my soldering parts and sweated the valve onto the pipe. The bread absorbed the small amount of water for the time I needed to do the job. When I turned the water on again, there were no leaks -- and the water pressure blew the bread through the pipe and out the open faucet on the other end.

Joseph V. Scaduto
Lynnfield, Mass.

Tips To Share? Do you have any hints or short cuts that might help other old-house owners? We'll pay $15 for any short how-to items that are used in this "Restorer's Notebook" column. Write to Notebook Editor, The Old-House Journal, 69A Seventh Avenue, Brooklyn, NY 11217.
YOU'VE BEEN SHOPPING for that perfect old house on a hill, and you've found one that you like. Everything is perfect, except for a giant crack in the living room wall. Will the house slide down the hill during the next big rain?

OR CONSIDER THIS: You've been living in an old house for some time, and now you've decided to finish the basement. It would be easy, except for all those columns in the way. You don't know anything about forces and moments, clear spans and live loads. So, who you gonna call...?

YOUR FIRST THOUGHT might be to call a building contractor. There are some skilled tradespeople out there who seem to have almost magical abilities to fix things. But in cases like these, a contractor isn't the right person to evaluate the situation and make decisions. Generally, you hire a tradesperson when you already know what needs doing -- when there's an assignment.

IF THERE ARE DESIGN DECISIONS to be made -- decisions about the feasibility of a project, the planning of a project that involves the structure or aesthetics of your house, then you need a design professional. That means an architect or an engineer.

Which Design Professional?

IT'S HARD TO DRAW A LINE between what an engineer does and what an architect does. First and foremost, there are individual differences. Some architects understand structural and mechanical systems as well as many engineers. And some engineers are sensitive enough to offer sympathetic solutions to design problems, aside from being able to size a beam or a heating plant.

BUT GENERALLY, an architect is more concerned with the interrelationship of design and systems. An architect is concerned with aesthetic, structural, and mechanical considerations. An architect can make an overall evaluation if you want to know the feasibility, approximate cost, or aesthetic or structural implications of, say, an addition to, or the replacement of a mechanical system.

AN ENGINEER has specific technical knowledge, and can help with a particular problem or controversy regarding a structural or mechanical system. Generally, compared to an architect, an engineer is more of a specialist.

ARCHITECTS coordinate the aesthetic features and mechanical systems in a building. An engineer evaluates the appropriateness of each mechanical or structural system for a particular building, then specifies the items needed, and their proper installation.

LET'S USE AN EXAGGERATED (but true) example to make the differences between architects and engineers even more clear...

GIVEN: A 100-plus-year-old octagon house with a large domed roof that was added twenty years after the house was built. The domed roof is pulling itself apart, and the house needs new plumbing, heating and air-conditioning, and insulation.

IF YOU WANT the house ready to move into, you need an architect to evaluate the whole structure and design the interdependent additions of plumbing, heating plant, and insulation. He'll deal with the suitability of the materials and machines, the sequence of the job, and the aesthetic effect of the changes.

IF YOU JUST WANT to fix the dome, you need an engineer. He will specify materials and techniques necessary to stabilize the dome -- things like steel girdles and wire trusses.

IF YOU HAVE all of the above problems, you should hire an architect. When it comes down to specifying the answer to the dome problem, the architect can always engage the services of a consulting Structural Engineer. And, if the heating, electrical, and utility systems are complicated, the architect may call in a consulting Mechanical Engineer.

IF YOU OPEN THE PHONE BOOK to "Engineers," you'll find a bewildering array of titles and specialties. Here is a list of definitions, some of which overlap:

- STRUCTURAL ENGINEER: An engineer who specializes in the design or redesign of structures. Some states require special licensing
for people who use the title Structural Engineer. These engineers usually act as consultants to architects, and provide designs, drawings, and specifications for structural items in the building plans. They also provide some supervision over parts of the project for which they have written specifications. Most of the same services offered to architects are available to contractors and homeowners.

- MECHANICAL ENGINEER: An engineer specializing in the invention, design, construction and adjustment of machinery. When they deal with buildings, Mechanical Engineers deal with the mechanical systems: heating, ventilation, air conditioning. Special training and licensing breaks this category down into specialties such as HVAC Engineer and Electrical Engineer.

- FOUNDATION ENGINEER: An engineer specializing in foundation problems. He may recommend suitable foundations for a proposed or existing building. For most projects involving residential-size structures, a Structural Engineer can handle foundation problems.

- CIVIL ENGINEER: An engineer involved in the design of fixed, often public, works such as highways, reclamation projects, harbors, water works, industrial facilities, and building design. (Prior to WW II there were two major designations for engineers: Military and Civil.) About 60% of all practicing engineers call themselves Civil Engineers. The remaining 40% claim a more specialized title; i.e., Electrical Engineer or Mechanical Engineer. Most Structural Engineers consider themselves as falling under the broad definition of Civil Engineer.

- CONSULTING ENGINEER: Any engineer can consult. When an engineer calls himself a Consulting Engineer, it generally means that he is in private practice and is available as a consultant in his specialized field. There are, of course, consulting engineering firms. Structural Engineers often call themselves Consulting Engineers.

- PROFESSIONAL ENGINEER (P.E.): A term used by many states to define an engineer in any branch of engineering who is licensed by the state.

A HOMEOWNER with residential-scale problems probably won't need the services of most engineering specialists. A homeowner is likely to need the advice of a Structural Engineer, if he or she needs an engineer at all.

What They Do

H owever serious a structural problem may seem to you, most house-size problems are not very complex to an engineer. House problems that call for an engineer's advice almost always fall into one of two categories: natural settlement, or man-made damage.

SETTLEMENT PROBLEMS involve footings and foundations, shrinkage, and shifting caused by rotted structural members. Man-made damage can be caused by overloading structural components, or by a tradesperson randomly cutting through joists to make an installation. (Plumbers and electricians are infamous for this.)

FOR SETTLEMENT PROBLEMS, you may need an engineer to design a system and specify components for foundation underpinning, new footings, channeling groundwater away from a house, monitoring cracks in masonry, or leveling a building. To correct man-made damage, an engineer can inspect framing, specify the size of a new girder, or design a reinforcement system for a load-bearing wall.

WHAT IF A CONTRACTOR tells you that the only way to keep your basement dry is to completely excavate two sides of your foundation so the foundation walls can be waterproofed? You may want a consulting structural engineer to tell you if you need some temporary shoring around the foundation walls before excavation can begin. We know of cases where contractors undermined foundations, and the house dropped right into the hole.

OTHER FAIRLY COMMON old-house restoration jobs that might be best planned by an engineer: chimney stabilization and rebuilding, or adding onto a house when the soil conditions under the house failed to use a proper footing. I'm prepared to spend whatever amount of money I must to correct the situation, and there's no hurry. When can I schedule an appointment?"

But in the real world, most people are likely to say something like, "one corner of my house is lopsided, and there's a big crack. I don't have much money to spend because I just put on a new roof, but water is still coming in this crack. What should I do?"

You don't have to be particularly savvy about things structural to give an engineer some idea of what is wrong. (If something looks wrong, it usually is.) And during your preliminary discussions with an engineer, you should advise him of any special constraints on the project: Budget, time, the need to preserve the architectural details of the house. Once you've done this, the engineer will have some idea of what you need done, and whether or not he or she can do it.

Selecting An Engineer

Pe ut together a short list of engineers you might consider hiring for your project. You'll want the names of several; after all, prices and experience do vary. Check with your local preservation group, or call...
your State Historic Preservation Office (SHPO). Even if neither of these agencies will recommend an engineer, they should be able to give you the names of some engineers who have worked on old-building restoration projects. You can also write or call the American Consulting Engineers Council in Washington, D.C. They should be able to recommend an engineer in your area who has experience in old-house restoration. Above all, before you hire any engineer, check his references! Try to find people who have recently completed a project similar to your own.

Once you have your short list, call a few engineers and discuss your situation with them. When you find someone with good references who seems to understand the project, schedule an appointment with that person at your site. Some engineers will charge to visit your site, others will charge a low fee (or, if you're lucky, no fee) for the initial consultation. If, after the initial consultation, you are convinced that you've found your engineer, hire him. If you don't think you can work with this person, go back to calling the people on your list.

What if you have a large, complicated, or unusual project? In such cases, you should arrange for two or three engineers, or representatives from two or three engineering firms, to make an on-site inspection of your project. While you will be faced with considerably higher initial consultant's fees, it might be worth the cost to hear different opinions, and get several quotes for the design work that needs to be done. When you get quotes from engineers or engineering firms, bear in mind that each of them will be quoting a price for a design plan, and that design plans are seldom alike. Don't be too impressed by a low quote; make sure you choose the plan best suited to your project.

Some words of caution: Don't hire inspectors, planning people, and the like, who work for the city, county, or utility company and "moonlight" as consulting engineers. And don't hire one of their relatives either! Sometimes, there's a conflict of interest here. ("Well, I can't approve that, but I've got a brother-in-law who can bring it up to code for you..." ) A lot of costly and irreparable damage has been done to old buildings by underqualified "para-engineers" who aren't licensed, and don't carry liability insurance.

If you hire an engineer (or para-engineer) to inspect a building, and he also happens to own a construction company, it's always in his best interest to find big problems with your house.

How They Charge

A bargain is that which is excellent, not that which is cheap." So says the American Consulting Engineers Council (ACEC). They continue: "You're not looking for the cheapest design job. You're seeking 'design value,' which comes when you engage the most qualified firm at a fair price. Remember that extra time (and cost) in the design phase can save money in the long run by reducing maintenance or replacement cost.

The ACEC's point is well taken: Engineers design things, they don't build things, and design is a creative process, not a commodity. If you need an engineer, your first priority should be to hire an engineer who is skilled and experienced in projects like yours. If you are restoring an old house, you want an engineer with experience and expertise in restoring old houses; you don't want a veteran of several insensitive gut renovations. You should expect the engineer's fee to be fair, but this should not be your first priority.

Sort of like choosing a doctor.

An important bit of protocol: For the reasons cited above, engineers don't like the term "bid." They really hate the term "low bid," so don't ask them to bid on your job. They will respond to an "Invitation To Submit Information".

Here's what you get charged for: The engineer's visit to the site, his technical identification of the problem, an analysis of the building and written recommendations. The inspection and written report will take several hours of the engineer's time and may cost several hundred dollars. The cost for an engineer's services ranges from about $55 to $90 per hour. If the project is relatively simple (an inspection, or specifying the size of a load-bearing member), the engineer will probably charge you for about four hours' work.

You can save yourself money doing some of the prep work yourself. For instance, if you know some basement panelling has to come out before the engineer can inspect the foundation, go ahead and pull it out before he gets there.

Just because you've hired a specialist to come in and suggest the best course of action doesn't mean you can't do some or all of the repair work yourself. You can use the engineer's report to guide you through your project. In fact, Lowell Christy of Christy-Cobb Engineers in Birmingham, Alabama, says that in three-quarters of the residential projects she works on, the repairs she recommends are done by the homeowner.

For more information:


Special thanks to Connie Neuman, Director of Information and Communications for the American Consulting Engineers Council, Washington, D.C.: Lowell Christy, of Christy-Cobb Engineering, Inc., 1031 S. 21 St., Birmingham, AL 35205. (205) 251-0499; and to David C. Fischetti, P.E., 109 Brady Court, Suite 200, P.O. Box 835, Cary, NC 27511. (919) 467-3853. Both private firms specialize in consulting work on historic buildings.
My Life With A Beehive Oven

by Barbara Hood
Hammondsport, New York

A follow-up to last month's article on building brick bake ovens

Our local Landmark Society offered a very enjoyable and informative class on fireplace cooking, and I'd like to share what I learned with the OHJ readers. The first thing is the firing of the oven. It takes about one hour's worth of a good blazing fire to get the oven hot enough to bake bread (approximately 375 to 425 degrees). The smoke from the fire at first turns the oven bricks black, but as the temperature of the bricks increases, the smoke burns off and the bricks are clean again. By that point your oven is hot enough for baking. The next step is to clean out the oven. Do this as quickly as possible; the longer the door is open, the more heat you lose.

A long-handled, shovel-like implement called an ash peel is used to clean out the ashes and any unburned wood. I prefer to shovel the hot ashes into the fireplace, rather than the ash pit. This way, the smoke and gases can go up the chimney; that's better than having them infiltrate into the room, which is what happens if you shut up the ashes in a flueless ash pit. (Surprisingly, historians aren't quite sure how ash pits were used.) After cleaning out the oven with the ash peel, dip a fireplace broom in water and whisk it around in the oven. This removes any remaining ashes and keeps your food from getting dirty.

To check the temperature of the oven, put your arm straight into the oven as far as you can. Be careful not to touch anything! If you can leave your arm in for a count of seven, the oven should be around 400 degrees. If your arm gets too hot before you reach seven, leave the door off for a while and check again. The bricks hold a tremendous amount of heat; we've had our oven reach over 600 degrees. (You might want to add a modern touch by checking the temperature with a stove thermometer. Use one for high temperatures, at least over 600 degrees, with no liquid or mercury in it.) We've also found that the oven can retain a good deal of heat: 32 hours after one firing, the temperature was 125 degrees.

When the temperature's right, it's time to do some baking. Bread requires the hottest oven, so start baking that first. As the bread cooks you can then go on and bake cakes, quick breads, and puddings. Unfortunately, the brick oven isn't good for baking lots of cookies; you have to keep opening the oven, and that cools it down too quickly. While all those goodies are baking, you can also have a nice big pot of chowder or stew cooking on the crane over the open fire.

Another way to use your fireplace is to cook over hot coals on the hearth. When the fire in the fireplace is producing a nice bed of red coals, take the ash peel and shovel the coals onto the hearth. Set a dutch oven on the coals, put the cover on, and pile more coals on top of it. I particularly like the dutch oven for making small cakes and muffins. Another method of cooking on the hearth is with open pots or spiders. You set them up the same way, except you don't cover them with lids and coals. They're great for making sauteed dishes.

Design Ideas

I am sure each person's fireplace and oven are unique in some way. I know ours is because we built it ourselves, along with the entire house! When we decided to build an authentic Saltbox house, I began looking for old houses with intact fireplaces and ovens. I found...
quite a few, and in photographing and measuring them I learned that each one was different in some way. One variation in our construction, concerning the front edge of the fireplaces, I think will be of special interest to OHJ readers.

I DON'T LIKE the modern look of the square edge of the brick on the surface (illustration A at right). The old fireplaces used corner bricks (B). At the time we were building, corner bricks weren't available. Some masons tried slicing off part of the brick (C), but I didn't like the appearance of the cut surface. It was brighter in color and the circular saw marks were visible. Our solution was to cut angles on the ends of the bricks and mortar the edges together (D).

I'VE INCLUDED in this article some of the recipes I've used and liked. Oven owners should always try new things; experiment a little, it's usually worth it. One evening after baking I put some oatmeal in a bean crock and closed the door until morning. The oatmeal cooked slowly all night long. It was still warm in the morning, and delicious!

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### My Beehive-Oven Recipes

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#### PIONEER MEAL BREAD

| 2 cups pioneer meal (equal parts corn meal, rye flour, & wheat flour)  | 2½ cups unbleached flour  |
| 1 cup whole wheat flour  | 1 pkg. or cake yeast  |
| 3 tbsp. butter  | 2 tbsp. honey  |

Dissolve yeast in ½ cup warm water with ½ tsp. sugar, and let set for 8 to 10 min. Mix pioneer meal with the unbleached flour and wheat flour in a large bowl. Mix 1-2/3 cups warm water with the butter & honey. Add yeast mixture to water mixture and add to flour. Beat together thoroughly. Add more unbleached flour; just enough to make the dough firm enough to handle. Turn out on floured board and knead about 10 min., until smooth. Shape into ball, put in buttered bowl, turn to butter top, cover, and let rise until double, 1 to 1 1/2 hrs. Punch down, divide in half, and shape into 2 loves. Place in greased bread tins, cover, and let rise for 45 to 60 min., until almost double. Then bake at about 375 degrees for 40 to 60 mins.

#### CORN CHOWDER

| 4 to 6 strips of bacon, cut into small pieces  | 1 small onion, chopped  |
| 4 potatoes, cubed  | 2 cups corn cut from cobs & milk  |
| 4 cups milk  | 3 tbsp. butter  |
| 1 carrot, grated  | 1/3 cup sugar & the remaining flour  |

Put bacon in iron kettle over open fire and cook slowly until crisp. Add onion & cook slowly another 5 min., stirring often. Add potatoes, corn and corn milk scraped from cobs, carrots, butter; salt & pepper to taste. Heat slowly to let flavor develop. If fresh corn is gone, use 1 cup kernels and 1 cup creamed corn. (I always double this recipe — it's even better the second day!)

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### CINNAMON BUNS

| 1 pkg. or cake yeast  | ½ tsp. sugar  |
| ½ cup butter  | 1/3 cup sugar  |
| 2 cups flour  | 1/3 cup brown sugar  |
| 2 eggs  | 2 tsp. cinnamon  |

Cinnamon filling:

| ½ cup soft butter  | ¼ cup white sugar  |
| ¼ cup brown sugar  | 2 tsp. cinnamon  |

Dissolve yeast in ½ cup warm water with ½ tsp. sugar. Let set for 8 to 10 min. In large bowl combine milk & butter. Cool to lukewarm. Add yeast mixture, 2 cups flour, 2 tbsp. sugar, and salt. Let stand covered in a warm place for ½ hr. or until mixture bubbles. Add eggs, beating after each. Add the 1/3 cup sugar & the remaining flour ½ cup at a time to make a soft dough. Knead on lightly floured board about 10 min. until smooth. Shape into a ball, put in greased bowl, turn to grease top, cover, and let rise until doubled, about 1 ½ hrs. Punch down and divide in half. Roll each half to about a 12-by-8-in. rectangle. Spread with butter, sprinkle with cinnamon filling. Roll from long side tightly. Slice each into 9 rolls and place in two 9-in. round pans or one 9-by-13-in. pan. Cover and let rise until almost doubled, about 45 min. Bake at about 350 degrees for 25 to 30 min., until browned.

#### DELICATE NUTMEG CAKE

| ½ cup butter  | ¼ cup shortening  |
| 1 cup sugar  | 1 tsp. vanilla  |
| 3 eggs, beaten  | 2 cups sifted flour  |
| 2 tsp. nutmeg  | 1 tsp. soda  |
| 1 tsp. baking powder  | ¼ tsp. salt  |
| 1 cup buttermilk  | 1 cup buttermilk  |

Cream butter & shortening. Gradually add sugar, creaming until light. Add vanilla and eggs; beat well. Sift dry ingredients and add to creamed mixture alternately with buttermilk; beat well after each addition. Pour into one 9-by-13-in. or two round, greased pans. Bake at 350 degrees for 35 to 40 min. for 9-by-13-in. pan; 25 to 30 min. for two round pans. (This cake could be baked in the brick oven or the dutch oven.) May be finished by sifting powdered sugar on the cooled cake or a broiled frosting. Mix 3 lbs. melted butter, 3 lbs. brown sugar, 2 tsp. cream, and ⅛ cup chopped nuts or shredded coconut. Spread on warm cake & broil. To broil topping, heat the ash peel by laying it in the fireplace, right in the hot coals. When very hot, hold it over the topping, allowing it to bubble.

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Here's the best reason in the world for having a beehive oven: homemade cinnamon buns, just begging to be scarfed!
To Strip Or Not

NOT STRIPPING MASONRY is cheaper, easier, and less risky than stripping it, so let's start with some good reasons not to strip. First of all, maybe the building was meant to be painted. Painted brick was quite popular in the 19th century, sometimes for a polychrome paint scheme, and sometimes to follow a European tradition of dark red paint with mortar joints "pencilled" in white.

OFTEN BUILDINGS were painted -- at the time of construction or soon after -- for more practical reasons. Cheaper, less attractive, more permeable bricks may have been used by the mason on a budget who expected the building to be painted. Early in the life of the building, water penetration may have been solved with a barrier of paint, which is less permeable than most brick. Or maybe the paint is later still, masking additions to the building. So, stripping may reveal ugly bricks, mismatched repairs or additions, or even architectural detail that turns out to be sandpainted wood, and not masonry at all.

ON THE OTHER HAND, there are some good reasons to strip masonry. The building may not have been painted until late in life, and then for a poor reason: It was dirty. Also, natural brick is, especially to our eyes, almost always prettier than a flat coat of paint.

YOU MUST STRIP failed paint from masonry before you can repaint. Depending on the degree of failure, you may have to completely strip the masonry. (There's no need to get every last bit off if you intend to repaint.) For practical rather than aesthetic reasons, you should strip masonry if:

1. The paint is badly chalking, flaking, or loose. Find the cause! Flaking is most often due to moisture penetration and retention.

2. The masonry has been "sealed" with an extra-heavy buildup of paint layers, or by gloss oil-based paint or aluminum/oil paint. In such a case, the masonry can't give up moisture and salts that accumulate in it.

Pressur will build up under the paint layers, and when the paint flakes, it will take some masonry with it. Look for signs of this happening. The masonry should be stripped with a commercial paint stripper, washed, repointed where necessary, and repainted with a high-quality latex masonry paint. Note: Paint will not stick to a powdering surface.

D-I-Y?

WHEN A BUILDING must be stripped, most owners hire a contractor. Exterior masonry stripping is difficult and hazardous. Besides needing specialized knowledge, the applicator works with strong chemicals, sometimes several storeys up. Professionals have experience and skill, a source of materials, and expensive extras such as scaffolding. The right masonry-stripping contractor should also know all about collecting and disposing of the effluent that comes off the building.

ONCE YOU'VE MADE the decision to strip, the contractor should do a test patch. This will settle the unique specifications for the job, as well as establish a "control" by which the rest of the job will be judged. Determine:

1. The type of stripper to be used.
2. The concentration to be used.
3. The dwell time, or optimum time for the chemicals to sit on the masonry.
4. The optimum pressure/volume of rinse water.

Disposing of Waste

WHAT'S COMING OFF the building is a chemical strong enough to strip paint, mixed with the softened paint itself. The paint sludge that comes off old houses contains lead (among other things) and is classified as a toxic waste. Flushing sludge into the soil will contaminate the ground around the house for many years to come. The sludge will contaminate well water. Flushing it down the sewers may contaminate water sources and is illegal — you will be fined if you're caught.

LEGALLY, it's the responsibility of the owner or architect to specify waste disposal procedures as part of the contract. Most contractors are not upfront about the disposal details, so press it: Make the final payment contingent upon your receiving a copy of the hazardous waste manifest. That way, you'll be heeding EPA regulations — and besides, it's the moral thing to do.

CATCHING the effluent is no big deal. Generally, it's contained in weighted tarps covered with absorbent straw. Then it's put in 55-gal. drums and a waste hauler is paid to dispose of it properly. The cost to the customer is about $125 per drum — a proportionately small cost, as a residential-size job may generate only one drum.
**SANDBLASTING**

**TO THOSE OF US who have**
been dragged to see hundreds of awful sandblasting mistakes. It seems incredible
that there should still be any need to warn against it, yet we've prepared this article
partly in response to the recent reader questions that have come by phone and in the
mail, asking whether sandblasting is okay. People have been told by contractors
(who have major investments in blasting rigs) that sandblasting is the only method
that will work. Others have heard that sandblasting causes problems, but don't
know the alternatives.

**SO ONCE MORE, let's review**
the case against sandblasting. In abrasive blasting, sand or other abrasive is
shot against the building in a high-pressure jet of air or water. This quickly removes
the paint, but as the abrasive doesn't know where the paint film stops and the
masonry starts, it always removes some of the building, too. It is all too easy to
lose control; in fact, with high pressures, it is impossible to keep control. Con-
sider the variables:

1) type, condition, and hardness of masonry  
2) density, hardness, size, and shape of the abrasive  
3) the pressure  
4) the constancy of the pressure  
5) the distance from nozzle to surface  
6) the skill of the operator

THE WATER RINSE will introduce water into the masonry. You don't want to introduce it into
the house, however, so be sure to inspect thepointing. If you are worried about water
entry, at least do a temporary joint-filling job with caulk or soft mortar. It need not be
a finished pointing job. In general, it's better to repoint after the stripping operation.
You will be able to see better to match the mortar color, and the rinsing will have
unlodged any loose mortar. Because of the water, finish up at least a month before the
first potential frost. Water freezing in the masonry will damage it.

**The Method Of Choice: Chemicals**

CHEMICAL TECHNOLOGY for strippers is not as
diverse or complex as that for masonry
cleaners. Generally, masonry strippers
are alkaline formulations, some quite basic,
others close to pH neutral. In virtually all
of the commercial preparations, sodium hydrox-
one (lye) is not used, as it often causes ef-
florescence later. (Eflorescence is a whitish
"bloom" on the masonry caused by water-borne
salts coming to the surface.)

SOME CHEMICALS manufacturers recommend a
dilute acid afterwash to neutralize the
caustic stripping chemicals. This is done
after the sludge has been rinsed away, and is
followed again by a clear-water rinse. Other
preparations don't need the neutralizing
afterwash, especially if the masonry is not to
be repainted.

HOWEVER, if you do intend to repaint, you must
neutralize and rinse thoroughly, or the paint
will not stay on. Do not repaint until the
masonry is completely dry. If you have any
doubts, hold off on painting for six months or
a year, to allow the masonry to rid itself of

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residues (efflorescence can be simply brushed off the surface).

THE PROPRIETARY CHEMICAL strippers are much more expensive than lye-based strippers, but they are worth it in lowering the risk to the building. With lye, removing residue becomes all the more critical. And neutralizing with strong acid would probably damage the mortar. It virtually cannot be neutralized enough to allow repainting. Proprietary strippers contain additives which increase surface activity (where the paint is) while avoiding deep penetration into the masonry.

WHEN YOU CHOOSE a proprietary formulation, you are buying a company's experience, avoiding the labor and hazard of mixing your own ingredients, and lowering risk for your building.

THE MOST WELL KNOWN stripping products are from the Sure-Klean line, manufactured by ProSoCo. ProSoCo prefers to sell direct to the contractor; the company guarantees its chemicals and wants to know who is using them. They maintain four regional offices, not only for sales, but also to answer technical queries. A technician will even visit the site if a problem crops up. For product information or a list of qualified contractors near you, contact ProSoCo at 1040 Parallel Parkway, Dept. OHJ, Kansas City, KS 66104; (913) 281-2700.

ANOTHER manufacturer who distributes nationwide is Diedrich Chemicals--Restoration Technologies. Again, the products are guaranteed and he prefers to sell only to distributors, contractors, and architects. For a free brochure or to get the name of a local contractor using Diedrich products, write to 300A East Oak St., Dept. OHJ, Oak Creek, WI 53154; call (414) 765-0058.

SOLMICA Chemical Mfg. is a smaller company with a commendable track record. The company head, a chemist with experience in masonry restoration, sells only to fifteen or so trained applicators, who operate "franchises." Work is guaranteed, and each dealer is trained by the manufacturer. Contact Solmica Chemical Mfg. at 6240 Wiehe Rd., Dept. OHJ, Cincinnati, OH 45237; (513) 631-0076.

FOR THE WHOLE JOB contracted out, expect to pay about $1 to $1.50 per square foot for chemically stripping paint from brick; more if there is a lot of masking or an extra-heavy buildup of paint.

FOR EVERY masonry-stripping horror story that involves some rare and unforeseen variable, there are many jobs that go without a hitch. All we see in print are the exceptions, accompanied by explanations of the failure which are ever more technical and, sometimes, far-fetched. It seems only fair to give space to the other side—the straight-forward job.

I FIND IT hard to advocate the do-it-yourself application of lye under any circumstances: It's risky for the building and dangerous for the applicator. But "the proof is in the pudding." These people have successfully used the method on several brick buildings—and served their major concern of saving money.

MAYBE this is an alternative for the predictable job. —P. Poore

Lye Stripping
by Adrian Lonnecker & David Miller

HISTORIC preservation publications are full of warnings about "improper" procedures on brick walls. They are short, however, on what's "proper," especially when it comes to stripping paint from brick.

SANDBLASTING is taboo, as are other abrasive methods. We stripped our building with chemicals and rinsed with cold water under high pressure. The latter did damage some of the mortar, which may have soon needed repointing anyway, but the bricks stood up very well. It cost us dearly to do this job, mostly because we lacked a methodology, even with the advice of professional paint chemists. If you are planning to strip bricks with chemicals, this article could save you thousands of dollars and help you avoid damage to your walls.

THE TYPE of paint stripper most of us are familiar with uses methylene chloride as an active ingredient. This isn't so suitable for outdoor work because of its quick evaporation. If you used an off-the-shelf solvent stripper, small areas would have to be power-rinsed about ten minutes after each application.

MOST OUTDOOR strippers are alkaline (pH basic). They work more slowly, and this is what we recommend. We further recommend that the stripper be mixed from raw chemicals, as opposed to buying ready-mixed concoctions. The only ready-mix we could find locally cost fifteen to twenty dollars per gallon. Our homemade stripper cost around fifty cents per gallon. Keep in mind that the mix should be applied in a layer at least 1/8-inch thick, so it doesn't cover nearly as much as paint does per gallon.

FOR US, homemade stripper has certain advantages over ready-mix:
1. It is much cheaper.
2. It can be mixed on a flat rooftop, reducing significantly the amount of weight to be carried up.
3. It can be left on a wall longer without forming a super-glaze.

HERE is a list of what you'll need to duplicate our method:
1 bag bentonite clay
one 100-lb. barrel caustic soda (lye)
a washtub on legs with drain spout
a 5/8-in. automotive heater hose, 50 ft. long
a drill-pump
a 1/2-in. vari-speed electric drill
gallon vinegar
a valve (see illustration)
AND:
respirator(s)
long rubber gloves
rubber or plastic suits
rubber boots
heavy-duty garden hose
washtub

Lye-Stripping Tools

THE APPLICATOR should be suited up "to the max," and the tub should be higher than the wall if possible. All workers in the area should wear goggles. It's alkaline, but post "DANGER: ACID" signs to better warn people below. Keep vinegar and a live hose ready for first-aid.

MAKE NOZZLES by hammering the end of 5/8-in. copper tubing, after inserting a piece of thick sheet metal to maintain an opening of sufficient size.

OUR RIG would throw the mixture two to four inches and cover a wall thicker and quicker than any other way. Once we perfected this method, burns were drastically reduced. Spills were drastically reduced, too. And it really worked well on details.

BY THE WAY, protect your soil with plastic sheets. The caustic and paint sludge will kill grass and shrubs. Collect the sludge and dispose of it properly.

THE RINSE: Test for the amount of time needed for the chemical to work. We have left it on overnight. When the mud gel is dry it stops working, so it is imperative that it goes on thick to stay wet. Rinse first with the garden hose, so the high-pressure wash won't blast chemical at you. We hired a water blaster, and carefully supervised him so he wouldn't blast out too much mortar. Catch effluent in the plastic and pump it away if necessary. If you do not get all the paint off the first time, you're in trouble. The paint on the brick has acted as a barrier so that the bricks didn't soak up the chemicals. But subsequent applications tend to leave un-rinsable residues.

TO MIX 5 GALLONS: Measure water and put in a clean plastic 5-gal. pail. Sprinkle clay into water while agitating with paint agitator powered by the 1/2-in. vari-speed drill. Mix as furiously as possible for about five minutes, as this will cause the clay to gel. The mixture should start to thicken at this point. Now carefully sprinkle in the crystals while slowly mixing. (Never add water to crystals, only crystals to water.) Before all of the crystals are added, the mixture will turn to "oatmeal," but don't be alarmed. Continue agitating the stiff mix, for it will eventually get less thick as you add the rest of the crystals. Beware: the mixture will self-heat (like drain cleaner); it can be used in this state. Now you should have a really thick gel, perfect for vertical application. To mix larger batches, we used the 15-gal. steel drums that the crystals came in.

APPLICATION: We tried brushes, brooms, rollers, buckets, pitchers, and spray guns, but found a pump works best. We used what is called a "drill pump," designed for household use. We went through four of them, so if you have a big job, a good chemical-resistant pump would be required. Just make sure the shaft is 1/2 inch or smaller, so you can use the drill to drive it. The caustic reacts with aluminum, so don't use any aluminum fittings.

SAFETY: Wear a respirator. The lye crystals should be handled with rubber gloves, as a speck will drill a hole in your skin. Likewise, the diluted mixture will eat your flesh if not rinsed immediately. We experienced burns on our arms. This was due to our early ignorance, crude application techniques, and a lack of rubber sleeves. (Ready-mix alkaline strippers will burn you with equal vigor.) And no joke -- ALWAYS wear eye protection.

DRYING OUT: If you get it all in one pass, there will be less residue. If you let paint that has been through the process stay on the wall, it can be extremely difficult to remove later. A dilute acid rinse will help neutralize alkaline residues, but will eat the mortar. [Editor's note: Lye stripping makes more sense for buildings that will remain unpainted. Residues will interfere with the adherence of new paint.]

THIS STRIPPER will take paint off wooden details, but will bleach and roughen the surface. [Editor's note: Wood will retain alkaline residues that cause new paint or varnish to blister and fail. Lye is not recommended for use on exterior wood.] It is obviously not to be used on interior woodwork.

A QUESTION: Should you strip at all? Why not just repaint? It certainly would have been cheaper for us. Some random notes: Soft, permeable bricks are more difficult to work with. Paving-quality or hard-fired bricks and high-cement-content mortar would be ideal. Soft, high-lime-content mortar can survive quite well, provided the paint is softened sufficiently to be removed with one power rinsing.
Rust Stains in Clawfoot Tubs

Lately, when cleaning my clawfoot tub, I seem to be bringing out rust-like stains. I've tried all kinds of products -- from bleach to rust remover -- to get rid of the stains, but they only seem to get worse. Can you help?

-- Cindy Wells Carrolton, Ga.

Rusting in Clawfoot Bathtubs after long periods of disuse is a common problem. Unfortunately, there's not much you can do about it. Porcelain naturally wears thin, allowing moisture to penetrate it and cause the cast iron underneath to begin to rust.

We don't advise that you try to refinish the interior of the tub with any of the epoxy-based porcelain repair products on the market. They wear through and chip easily.

One way you can prevent the wearing away of your porcelain is to use a nonabrasive cleaner -- we recommend Bon Ami. Bon Ami's old-fashioned Cleaning Powder scrubs with feldspar, so it won't scratch the porcelain like cleansers with silica.

Removing Carpet Mastic from Wood

We just purchased a 100-year-old house that has wall-to-wall carpeting. We're removing the carpet, but some of its backing is sticking to the wood floor. How can we remove this sticky backing from the floor?

-- Muriel Doll Northpoint, N.Y.

We recommend that you remove the sticky, black carpet backing from your wood floor with a chemical solvent. Be sure to scrape off as much of the backing as possible with a sharp handscraper (the kind Sears sells with removable blades is good), so that the solvent won't soak the black stuff into the floor.

Start with a mild solvent such as paint thinner. Be sure to try a test patch in an inconspicuous place first, especially if you are trying to save the original finish. Other solvents, from gentle to harsh, are naphtha, lacquer thinner, and acetone. Remember, all of these chemical solvents are flammable and should be handled with care. And don't forget to wear gloves!

Floor-Refinishing Kit

We recently read about a floor-finishing kit that sounds too good to be true. It comes with fine steel wool, plastic gloves, and two liquids: one for cleaning the floor, the other for restoring the color and the finish. We would like to lighten the color of our floors, but we are anxious not to sand them. Is this kit indeed as good as it is advertised to be?

-- Barbara and Bob Lewis New York, N.Y.

There's nothing "too good to be true" about the floor-finishing kit you saw advertised -- and there's probably nothing wrong with it either. Refinishing liquids are available from several companies and are sold in large hardware stores or building supply stores. The solvents in them clean the floors, remove wax, and reamalgamate the old finish to some extent. These people have turned it into a kit by including steel wool and gloves. If you do buy the kit, or use another type of refinisher, be sure to do a test patch in an out-of-the-way place.

Tar on an Old Copper Roof

I am renovating a 1930s house with a copper roof. The previous owner applied tar to most of the seams and other areas where he thought there might have been leaks. But the tar has not prevented leaking and at present needs to be removed in order for the roof to be repaired. Do you know of a preparation that can be used to remove tar from copper?

-- James L. Wiegerink Los Angeles, Calif.

We know a chemist who spent the better part of a year trying to find a way to remove tar from the copper roof of a major New York City landmark. He concluded that there was no cost-effective way. Solvents and dry ice (to embrittle the tar) were used with some success, but it was slow going.

Your roof may be salvaged and repaired correctly, even with the tar patches. Perhaps some of the roofing can be replaced, while other areas are saved to keep the cost down. A competent roofer who specializes in metal roofing can tell you what's involved and what it will cost.

General interest questions from subscribers will be answered in print. The Editors can't promise to reply to all questions personally -- but we try. Send your questions with sketches or photos to Questions Editor, The Old-House Journal, 69A Seventh Avenue, Brooklyn, NY 11217.
Woodwaiter—A Dumbwaiter for Firewood

Now here's an item that would have been a welcome gadget if it'd been around in the 19th century. If you seriously heat and cook with wood, you'll surely appreciate the Woodwaiter. Basically a small electric dumbwaiter, the Woodwaiter is an easy way of moving wood from the cellar to the hearth.

The Woodwaiter lifts 125 lbs. of standard 16-in. firewood. There are two designs; the Pop-up model has a trap door that opens as the woodbox comes up to floor level. The Permanent Woodbox model is grooved pine with an angled hinged top into which the Woodwaiter delivers a load of wood.

The units are designed for homeowner installation and can be installed in any house with sufficient clearance. The wood box sizes range from 18 in. to 26 in. square and are priced from $679.50 to $1,062 FOB Lennoxville.

For more information and a free brochure contact W.B. Fowler Industries Inc., 9 Haskell Hill Road, Lennoxville, Quebec, Canada J1M 2A3. (819) 562-8510.

Thatched roofs are rare in this country, but Warwick Cottage Enterprises is changing all that with the introduction of their Warwickshire Thatched Roof Coverings. This is real water reed thatch, installed exactly as it's been for centuries by master thatchers (not some new product made from soda straws)!

Wes Warwick, general partner in the new firm, has done a quite impressive job in getting fire-retardant Class 'A' and treated Class 'C' rating certifications for the thatch, and in creating a very good thatching manual (available for $3). Even if you're not interested in having your Queen Anne thatched, you'll appreciate all of the intricacies of the craft, which are profusely illustrated in the manual.

New Thatch Roofing Comes To America

From the late 1600s well into the 1800s, thatch roofing could be seen on buildings from Massachusetts to far western territories such as Utah. Although there are few remaining structures here today that originally had such roofs, Wes is finding terrific interest for thatching on new commercial and residential structures as well as outdoor museum structures.

Far from being short-lived, water reed thatching can last as long as 70 years, will withstand 110 mph winds, is not affected by mildew and fungus, is waterproof, handles high heat and snow well, insulates to an R 11.8, and bugs don't like it.

Weathertamers Catalog

Brookstone currently has a very good Fall and Winter catalog out entitled Weathertamers ... For The Energy Conscious. Here are a few items you and your old house might find useful: a small alarm that tells you when the basement is flooding; foam-insulating blankets for single-glazed windows; and attractive wool hearth rugs to protect your wood floors from hot coals.

For cooking on your wood or coal stove there is a Super Griddle and a cast iron kettle. You can seal up leaky doors on your wood and coal stoves with a variety of woven fiberglass gaskets.

For a free copy of the Brookstone Weathertamers catalog, write to Weathertamers, Dept. OHJ, 630 Vose Farm Rd., Peterborough, New Hampshire 03458. (603) 924-7181.

John Cousins and Alan Lewis, master English thatchers, have been imported by the Warwick firm not only to apply the thatching in a traditional manner but also to train American apprentices in the craft. They dress the thatching to the roof, using a leggett tool, to a minimum thickness of 12 in. Ridge caps, a truly distinctive woven feature, are made from sedge, a type of reed similar to water reed. Thatching is applied over the battens and plywood sheathing on roofs having a minimum slope of 45 degrees (12:12). The cost of this type of roof is about $2500 per square (100 square feet).

To find out more contact Wes Warwick, Warwick Cottage Enterprises, Dept. OHJ, 2944 Greenhedge Ave., Anaheim, CA 92806. (714) 630-9251.
Finnish Fireplaces & Parts

Many of us have heard of Rumford fireplaces, but have you ever heard of Finnish style, wood-fired, masonry heaters? Albert and Cheryl Barden of Maine Wood Heat Co. are masters at Finnish style, wood-fired, masonry heaters, bake ovens, cookstoves, and fireplaces since founding their firm in 1976.

You may recall that the Rumford fireplace and shallow firebox is designed to radiate heat out into a room, retaining little heat in its thermal mass. The Finnish design takes the opposite approach; a deep rectangular firebox radiates heat into itself for maximum efficiency, through a sophisticated down-draft technique, heat from the fire is absorbed and slowly radiated from the entire mass of the heater. All of this means carefully built and fueled twice a day for 1-1/2 hours for each burn, can serve as the primary heat source for a tight, well insulated, single-family home. The heaters are capable of generating as much as 50,000 BTUs per hour, an 80% efficiency rate. Once the burn is completed and dampers are closed, the entire mass of the heater will radiate heat for the next 12 to 24 hours.

You can build these heaters yourself, and if you want to find out more about the system and its requirements, send $2 for their catalog and price list. Their illustrated step-by-step construction manual contains technical drawings and a materials list and sells for $15.

The catalog contains one of the most extensive lines of cast-iron, masonry heater bake oven, and cookstove parts we've found. There is a cast-iron oven, numerous hinged access door designs, dampers, and even a complete stove cooktop. There are a number of fireplace, heater, and bake-oven plans ranging in price from $5 to $15.

Here's an interesting item: Did you know that some early fireplaces, beehive ovens, and chimneys were laid up with a clay rather than lime-based mortar? An early form of refractory mortar often consisted of 3 parts sand and 1 part clay. It was used for common brick exposed to high heat but not exposed to weather. Maine Wood Heat currently offers a high-quality and hard-to-find Finnish clay-based heater mortar that is less brittle and rigid than cement-based mortars and is designed for use in inner heat-stressed walls of fireplaces. Also available is high-quality refractory mortar for use on firebrick.

Because Finnish Heaters are constructed differently from conventional fireplaces, Maine Wood Heat offers a complete assistance and training program.

For more information contact Maine Wood Heat Co., Inc., Dept. OHJ, P.O. Box 640, RFD 1, Norridgewock, Maine 04957. (207) 696-5442.

Remember Murphy Beds?

Even if you've never heard of a Murphy Bed, chances are you've seen the Marx Brothers or the Three Stooges fold themselves into one. This wonderfully American invention, technically known as the Murphy In-A-Door Bed, was invented by William L. Murphy at the turn of the century in San Francisco. He had a problem common to many old-house owners—not enough space. His bed took up most of the space in his one-room apartment, so he began experimenting with a folding bed to free up additional space.

In 1900, Murphy applied for his first patent and the Murphy Door Bed Co. was off and rolling. Eighty-four years later the company is still going strong, making it one of the oldest furniture firms in America. By 1918, Murphy had invented an ingenious pivot bed that swung out from a closet and lowered to a sleeping position. Shortly thereafter he created another space-saving devise, the first compact kitchen called the Murphy Cabinette.

Today, Murphy Beds are available in standard sizes: twin, double, queen, and king. All of the beds use standard-size bedding and go up fully made, no storing pillows or bedding during the day.

Murphy Beds can be mounted in custom-built cabinetry that suits your house, or fit into a wall behind doors.

The basic concept is a simple counter balancing bed frame that attaches securely to the floor with screws. When not in use, the bed simply raises into a closet or cabinet wall that's from 16-1/2 in. to 23-1/2 in. deep (depending on the model). There's even a Murphy Sidebed that raises into an opening only 44-1/2 in. high.

Murphy beds have a number of features that make them attractive for use in older houses. First, the bed takes up very little space and can be designed into a wall, placed behind period-style doors that match the rest of the house, or with a little ingenuity, fitted into an old armoire. Secondly the bed itself uses conventional springs and mattressings, which make it comfortable to sleep on, unlike those folding beds and sleeper couches we've all gotten aching backs on.

Murphy Beds are priced from $332 to $803. You can order the Murphy Bed direct from the manufacturer and they will pay the freight. When you write for a free catalog be sure to check out their line of Cervitor Compact Kitchens, too. Murphy Door Bed Co., Inc., Dept. OHJ, 40 East 34th St., New York, NY 10016-4595. (212) 682-8936.
I talked to a Vermonter named Bill Hults recently, a builder, inventor, and energy specialist who runs the Energy Conservation Equipment Company. We were discussing air infiltration problems, and he told me about a Canadian book entitled A Double Wall Retrofit Project, by I.H. Warkentin (available from Energy Conservation Equipment Co. for $5.95 ppd.). The book deals with the creation of a two-layer, insulating exterior wall structure on an existing 1906 Winnipeg (Manitoba, Canada) house. Particularly interesting was the unusual installation of a continuous polyethylene air/vapor barrier seal, and construction of a double-wall insulating structure (pioneered by the National Research Council of Canada). To oversimplify things, an old house was wrapped in plastic and new, insulated walls were built around it.

Now don’t jump to conclusions! We’re not suggesting that you try all of the energy-conserving measures that were carried out in this house. But there are a lot of very good techniques illustrated and backed up with facts and figures that could help you tighten up your old house. Here are some of the benefits you could expect: Elimination of drafts and cold spots, slower fluctuations in temperature, a healthier winter atmosphere with higher humidity, a cooler house in the summer, a quieter house that will retain heat longer, reduced heating and cooling costs, control of air quality and ventilation rates, and perhaps a higher resale value.

Chimney Sweep Brushes

Keeping chimneys and flues free of soot and dangerous creosote build-up is a job that many old-house owners are finding they can do themselves for less than the cost of hiring a chimney-sweep.

A firm here in Brooklyn that’s been in business well over half a century makes a high-quality line of chimney cleaning brushes and accessories and sells them at reasonable prices.

Air/vapor barrier film and boxes are shown sealed into place over insulation.

Not until the 1970s did we begin to fully appreciate the value of continuous air/vapor barriers.

Even though we stuff insulation into every nook and cranny, we’re — at best — simply filtering the air as it comes in (infiltration) and goes out (exfiltration). And it comes and goes through an enormous number of little openings, which we hardly bothered to look for in the cheap-energy days.

The single biggest obstacle, of course, to installing an effective vapor barrier in an old house is that interior walls have to be removed. This simply isn’t cost effective or desirable unless the original perimeter walls and ceilings are damaged beyond repair or missing altogether. If they are, you have an excellent opportunity not only to reduce infiltration but also to add additional insulation without increasing the overall project cost very much.

Round, square, and even rectangular brushes are available made from wire, fiber, or nylon. A 6-in. round chimney brush sells for $11, and the 6 in. x 6 in. square model is $16.50. Twisted flexible wire handles and fiberglass extension rods sell for $5.50 and $7 each for the 3-1/2 ft. length.

Installing an air/vapor barrier is relatively simple. Six-mil polyethylene is set into a bed of non-hardening caulk and stapled directly to the exposed studs of the interior walls around the perimeter of the house. Great care is taken to overlap and seal the poly sheets and to avoid punching holes in the plastic when finishing the wall installation.

Bill warns that electrical systems are one of the largest sources of air infiltration in most houses. Outlets and switches should be located on interior walls wherever possible, and ceiling-mounted light fixtures abandoned in favor of interior wall-mounted fixtures. The total elimination of recessed ceiling lighting and exhaust fans in exterior ceilings that are to have vapor barriers and insulation is also recommended. These units can’t be sealed to the point where they won’t leak air without over-heating and creating a fire danger.
FOR SALE
FRANKLIN STOVE, mid-19th century. Can be used as a fireplace insert or free standing. Firebrick lining. Unique disappearing doors. As pictured in “Fire on the Hearth” by Josephine Pierce, p. 57. Excellent. $600. (201) 439-3529.

PANELLED DOORS, thick walnut veneer on pine, c. 1900, panelled around perimeter of door, unpainted, ready for any finish. 36 in. x 78 in. 41/2 in. thick. Box 597, Hamburgh, NY 14741. (201) 827-4547 after 6 PM.


225 RED CLAY ROOFING TILES, ISW m. x 9%/ in. 36 in. wide. RR 1, Box 597, Hamburg, NJ 07419. Ready for any finish. Various sizes up to 86 in. tall and grade with lap joint edges and waffle face, R-6. Best interlocking rib edges, manufactured 1910 by National Roofing Tile Co., Lima, Ohio. Also, 130 rigid EPS insulation boards (new), 24 in. x 36 in. x 1/4 in. Premium grade with lapped edges and waffle face, R-6. Best offers. Saks, 117 E. Penn St., Long Beach, NY 11561. (516) 431-6245.

HUNDREDS OF WOOD PATTERNs, many mahogany, used for foundry castings. Make offer. Ornate (shells & floral) cast-iron fireplace front with water jacket. 36 in. W x 34 in. H. Make offer. F. Behr, Renovation Rd., RD 1, Greenwich, NY 10987. (212) 554-4717.

PARLOR SET, Victorian, 1850s-60s, includes settee, Mr. & Mrs. chairs, plus 4 “Company” chairs. Pale blue upholstery, in exact condition. M.H. Cronben, 240 JSt., Salt Lake City, UT 84103. (406) 363-4156; 363-4483.

COMPLETE INTERIOR of 1883 mansion available. Pair exterior oak entryway doors with bevels. Matching pair vestibule oak-paneled doors with stained glass — one morning scene, other evening scene. Pair raised-panel cherry pocket doors. Cherry mantel with 17 ornate 1881 tiles. Much more, all excellent. Scherer's Antiques, PO Box 6305, Lincoln, NE 68506. (402) 423-1582.

25 OLD CAST-IRON flower urns, most 21 to 26 in. in diameter x 31 in. tall, 5 kinds. $120 each; w/ handles $150 each. New cast-iron handles, 2 kinds, 19 in. L, exact copies of originals. $30 pr., $45 pr. for large size. 5 early 1900s painted mahogany benches, bough by National & back, w/ curved arms. $120 each. (815) 526-2122.

BATTENBERG LACE CURTAINS, 8 panels 24 in. W x 72 in. H, 4 panels 36 in. W x 80 in. H. Handmade museum-quality lace, all with matching pattern. Exc. cond. $2,500. $1 plus SASE for photo. Sandra Winge, 123 S. Bench St., Galena, IL 61036. (815) 777-9321.

12 DOUBLE-HUNG WINDOWS, c. 1870, some with original glass. No charge — you must arrange removal. Have 2 early 1900s windows. Charles N. Window, PO Box 373, Chadds Ford, PA 19317.

DU PARQUET cast-iron gas stove, 3 ovens + grill. Waste top and warming oven top, completely restored. $2,000. Parlor stove, 1924 Herald Base Heater, currently in excellent condition. $106,000. Patty Martin, Odom Real Estate, (205) 749-1208; 749-2980.

TAKE GOOD CARE of this house. Be sure to the Nat’l Register out of 1000 mill stes surveyed in 1977, this house is c. 1810 Federal mansion. Washingtonville, NY — Estate. 157 acres. Main house is 3,670 sq. ft., 3 bdtms, 2 baths, nicely restored. $600,000. Lin Garber, Carisen Agency, Inc., Realtors. (914) 496-9133.

WINTER IS PLANNING TIME: Plan your old-house restoration, construction, remodeling design, research, technical assistance. Free estimates. Steven McQuillin, 1 Elm St., Great Neck, NY 11201. (516) 347-7532.

CONSULTATION for owners or potential owners of historic buildings, including Nat’l Register nominations, tax act certification, architectural designs, research, & technical assistance. Stevens McQuillin Independent Preservation Consultant, 3515 Aitwood Ave., Cleveland, OH 44109. (216) 749-3515.

THE HISTORY STORE has expanded to Baltimore. Our second retail store is now open 10 AM to 5 PM, Mon. - Sat. to serve old house renovators with antique mantels, doors, shutters, hardware, and other architectural items. Have custom ordered designs and do restorations. 1736 Allecrna St., Baltimore, MD 21231. (301) 342-1876.

REAL ESTATE
NEW MARKET, MD — 18th-Century restoration, ideally situated near Washington & Baltimore, the favorite of antique buffs. Unique home with original working FP, random-width floors, steeped in history. Attached antique shop. $175,000. Jackie Meriwether, Long and Foster Realtors. (301) 831-4015.

JIM THORPE, PA — The original Odd Fellows Building in historic district. Prime location, in exc. cond. & beautifully restored with many original features preserved. 1st and 2nd floors contain 2 large conditioned offices with private elevator and 1st floor. Excellent rental income. $106,000. Mike Hepkis, Bill Rehrig Realtors, Palermo, PA 18071. (215) 826-4822.

OPELKA, AL — Late Victorian in historic district, one-family ownership since construction in 1900. Features antique gaslight & electric combination chandeliers, 11 different & magnificent mantels, stained glass windows & doors, all beautifully restored, & curbevelled glass picture windows, ornate oak millwork w/ hand-carved newel posts, heart pine floors, 6 BR, 3 baths, reception area, situated on large lot. $175,000. Patty Martin, Odom Real Estate, (205) 749-1208; 749-2980.

TREADWELL, NY — 1864 vintage gristmill with millwright’s shop. One of 3 being considered for nomination to the Nat’l Register out of 1000 mill sites surveyed through a grant from the New York State Division of Historic Preservation. Victorian home, insulated barn. $150,000. C. Castro, Star Route, Treadwell, NY 13846.


OLD-HOUSE WEEKEND AT Old Sturbridge Village March 30-31

Come join an all-star faculty in Massachusetts — including the Editor & Publisher of The Old-House Journal! Last year’s spring weekend at OSV was a great success, and this year the topics cover an even broader range:

- Dating a Building
- New England Interiors 1750-1870
- Conserving & Repairing Old Plaster
- Energy Conservation
- Restoring Painted Finishes
- Preserving Decorative Painting & Stencilling

Presentations given by Patricia Poore, Editor, & Clem Labine, Publisher, Old-House Journal; Andrew Ladygo, Conservation Workshop, S.P.N.E.A.; Abbott Lowell Cummings, Yale University; Daria Olson, Conservation Artist; John Obed Curtis, Jane Nylander, & Marylou Davis, Curators at Old Sturbridge Village.

- Meet other old-house people & lecturers during lunches and the Conference Banquet at the Ballard Tavern on the Village Green
- Admittance to all Village buildings
- Special craft demonstrations

Cost per registrant is $85, $75 for OSV members. Add $15 for Banquet. To register or for more information, contact Secretary for Special Events, Old Sturbridge Village, Sturbridge, MA 01566, (617) 347-3362.

FREE ADS FOR SUBSCRIBERS

Classified ads are FREE for current subscribers. The ads are subject to editorial selection and space availability. They are limited to one-of-a-kind opportunities and small lot sales. Standard commercial products are NOT eligible.

Free ads are limited to a maximum of 50 words. The only payment is your current OHL mailing label to verify your subscriber status. Photos of items for sale are also printed from space permitting. Just send a clear black & white photograph along with your ad copy.

The deadline for ads is on the 5th, two months before the issue date. For example, ads for the December issue are due by the 5th of October.

Write: Emporium Editor, Old-House Journal, 46A Seventh Avenue, Brooklyn, NY 11217.

BOOKS & PUBLICATIONS

MRS. WELCH'S COOKBOOK, a facsimile of the original printed in 1884. Includes over 270 pp. of recipes, health care, food preparation, and entertaining hints. Hardcover, $14.95, softcover, $9.95, plus 50¢ postage per copy. Mail orders to Iowa Chapter, Victorian Society in America, 2940 Cottage Grove, Des Moines, IA 50311.

ANTS QUOTEPHONGRAPHS. Collector/restorer is looking for old wind-up phonographs to buy, complete or not, and also odd parts such as horns, needle-beads, etc. Michael Glickman, 147 Highland Ave., Middletown, NY 10940. (914) 343-0136.

FRENCH BEDROOM SUITE, Louis XV or similar, or similar country style. Age not important, reproductions ok, but only superior quality, please. Send photo, asking price, number of pieces, & dimensions. Also desire compatible fireplace mantel, wood or marble. Robert Fisher, 8131 Orchard St., Olmsted Falls, OH 44138.

CENTER FOR ARCHITECTURAL CONSERVATION is seeking information on research labs which perform work on historic building materials. Types of lab analysis information being gathered include terra cotta, brick, mortar, moisture, lighting roofing, cast iron, wrought iron, sash, wood, sandstone/granite, plaster, insulation, paint, & concrete. Send information to Rod Gay, Center for Architectural Conservation, Georgia Institute of Technology, Atlanta, GA 30332. (404) 894-3950.

OLD-HOUSE WEEKEND AT
Old Sturbridge Village March 30-31

OSV

FULL OR PART-TIME IN Bay Area, Calif. Carpentry, cabinet shop, or restoration/renovation. 3 summers' rehab experience, have also built over 20 pieces of furniture to order. Dependable, hard-working, 19 years old, relocating in Jan. Have tools, transportation, good references. Doug Temkin, 1325 Willard, San Francisco, CA 94117. (415) 853-4163.

PRINTER WANTED

MRS. WELCH'S COOKBOOK, a facsimile of the original printed in 1884. Includes over 270 pp. of recipes, health care, food preparation, and entertaining hints. Hardcover, $14.95, softcover, $9.95, plus 50¢ postage per copy. Mail orders to Iowa Chapter, Victorian Society in America, 2940 Cottage Grove, Des Moines, IA 50311.

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Write: Emporium Editor, Old-House Journal, 46A Seventh Avenue, Brooklyn, NY 11217.
THE BEST
Plastering Book
Is Back!

Here's the book for anyone interested in the "lost art" of wet plastering. Whether you just want to re-create 10 feet of missing plaster cornice, or need to replaster an entire wall, this is the how-to volume you've been looking for. This textbook, an entire wall, this is the how-to volume you just want to re-create life of missing plaster cornice, the "lost art" of wet plastering. Whether here's the book for anyone interested in the best in the field, and those fortunate this book will tell you how to make flat plaster walls and ceilings. It has a chapter enough to have gotten the volume 15 years ago have jealously guarded their copies. And well they should!

This book will tell you how to make flat plaster walls and ceilings. It has a chapter on Special Finishes, with an excellent section on how to create various stucco textures. But it's the chapter on Ornamental Plaster which will excite people who are involved with old houses. It shows in detail how to make run-in-place plaster cornices. All the steps are covered: making a cornice-running mould, dotting & screening, running the cornices, mitering. This chapter also teaches how to make coves, hang coffers, and run circular & elliptical centerpieces.

To get your copy of this special limited edition of Plastering Skills, just check the box on the Order Form, or send $24.45 (includes fast UPS shipping) to The Old-House Bookshop, 69A Seventh Avenue, Brooklyn, NY 11217.

THE TWO BEST HEAT TOOLS FOR STRIPPING PAINT

That's a strong claim to make, but we stand by it. The OHJ editors have tested the heat tools available, and these two are still the best: the strongest, most efficient, longest-lasting heat tools you can buy. The Heat Gun and Heat Plate are designed to provide years of service on heavy-duty jobs. The other paint-stripping tools now available don't compare: They're not industrial quality, are made largely of plastic, have a lower heat output, and break down all too quickly.

Together, the Heat Gun and Heat Plate described below can solve your most difficult paint-stripping projects. Refinishing experts agree that, whenever practicable, hand stripping wood pieces is preferable to dipping them in a strong chemical bath. The Heat Gun and Heat Plate are the best overall tools for taking paint off wood surfaces. They make paint removal safe, quick, and economical.

Heat is a fast method because the paint bubbles & lifts as you go along. There is no waiting for chemicals to soak in, no multiple recoatings, and far less cleanup. Unlike stripping with chemicals, all layers of paint are removed in a single pass.

As for economy: Because these tools are long-lasting, industrial products, the initial expense is made up in savings on the $18 to $22 per gallon stripper that you're no longer buying in quantity. Even after heavy use, a worn-out heating element on a gun can be replaced by the owner for about $7.

The Heat Gun

Ideal for moulded & turned woodwork!

Over 10,000 OHJ subscribers have purchased the Heavy-Duty Heat Gun, and discovered the best tool for stripping paint from interior woodwork. (A small amount of chemical cleaner is suggested for tight crevices and cleanup, but the Heat Gun does most of the work.) It will reduce the hazard of inhaling methylene chloride vapors present in paint removers. Another major safety feature is the Heat Gun's operating temperature, which is lower than that of a blowtorch or propane torch, thus minimizing the danger of vaporizing lead. The Heat Gun operates at 500 to 750°F, draws 15 amps at 120 volts, and has a rugged, die-cast aluminum body — no plastics!

The Heat Plate

For any flat surfaces — even clapboards!

After testing all of the available heat tools, the OHJ editors recommend the HYDElectric Heat Plate as the best tool for stripping clapboards, shingles, doors, large panels, and any flat surface. The Heat Plate draws 7 amps at 120 volts. Its electric resistance heating coil heats the surface to a temperature of 550 to 800°F. The nickel-plated steel shield reflects the maximum amount of heat from the coil to the surface. And among the Heat Plate's safety features is a wire frame that supports the unit, so you can set it down without having to shut it off.

Both the Heavy-Duty Heat Gun and the HYDElectric Heat Plate come with complete operating & safety instructions, and are backed by The Old-House Journal Guarantee: If your unit should malfunction for any reason within two months of purchase, return it to us and we'll replace it.

The Heat Gun is available for only $77.95; the Heat Plate for only $39.95. (These prices include fast UPS shipping.) You can order either or both by filling out the Order Form in this issue, or by sending a check or money order to The Old-House Journal, 69A Seventh Avenue, Brooklyn, NY 11217.
Old House Woodwork Restoration

This is the first book we’ve found that deals exclusively with restoring architectural woodwork. It’s filled with practical do-it-yourself advice and detailed step-by-step instructions, with a generous selection of photos explaining each phase of the various tasks. It has the best information of any book we know on stripping paint from wood and then selecting a finish. If you’re going to start working on your floors, trim, siding, staircases, doors, etc., this book is just what you need.

Softcover, 208 pages, 8½ x 11
$15.45, includes fast UPS shipping and handling

Modern Carpentry

An outstanding textbook that clearly explains building materials, tools, and construction methods, and the planning and sequencing of major home repairs. 592 pages. Hardcover. $20.45.

Wallpapers and Fabrics

These two books hold carefully screened, valuable information for those who are ready to decorate their homes. They list a range of sources for materials that are appropriate to the period of your old house. Wallpaper styles from 1700 to 1910 are represented; fabric styles from 1790 to 1900. Total 287 pages. Softbound. $22.45.

Tasteful Interlude

Rare photos of original interiors from the Civil War to World War One. Of great value to anyone decorating in a period style. Written by William Seale. 284 pages. Softbound. $15.45.

A Field Guide to American Houses


Antiques & Art - Care & Restoration

This book focuses on the toughest challenges facing a do-it-yourself restorationist. It contains invaluable secrets for restoring ceramics, mirrors, marble statuary, oil paintings, photos, books, clocks, coins, and Reed organs, as well as furniture, stencilling, and gilding. 255 pages. Hardcover. $20.45.

Century of Color

Authentic, historically accurate paint colors for your house's exterior. 100 color plates depict house styles from 'plain' Victorian & vernacular Classic houses to show-case homes, covering the years 1820-1920. 108 pages. Softbound. $15.50.

Building Kitchen Cabinets

Basic, straightforward instructions and over 150 illustrations make this complicated job a snap for any do-it-yourselfer with carpentry skills. Every step of the job is covered; buying hardware, estimating costs, constructing & installing cabinets. 144 pages. Softbound. $14.45.

The Motion-Minded Kitchen

This book surveys how to design, plan, and construct a kitchen that's both efficient and appropriate to your old house (without costing a fortune). 146 pages. Softbound. $12.45.

The New 1985 OHJ Buyer's Guide Catalog

This book is the 'Yellow Pages' for pre-1939 houses: a comprehensive buyer's guide listing 1,348 companies. That's almost 10,000 hard-to-find, old-house products & services at your fingertips. From hand-printed wallpapers to marble mantels, wooden porch ornament to brass lighting fixtures — all meticulously indexed and cross-referenced. All listings have also been carefully screened by the OHJ editors.

Softcover, 208 pages, 8½ x 11
$10.95 to current OHJ subscribers
$15.45 to non-subscribers

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All eight Yearbooks at only 2/3 the price. You save $34

OHJ Binders

BINDERS - Brown vinyl binders embossed in gold with the OHJ logo. Holds a year of issues. $6.75 each.

The OHJ Tool Shop

NEW!

Makita Professional Screw Gun - $99.50

Master Heavy-Duty Heat Gun - $77.95

For stripping moulded and turned woodwork

HydELECTRIC Heat Plate - $39.95

For exterior stripping and large flat surfaces

Please clip this page and mail together with check payable to The Old-House Journal to THE OLD-HOUSE JOURNAL, 69A Seventh Avenue, Brooklyn, NY 11217.
For All Queen Anne Lovers:

**LATE VICTORIAN INTERIORS & DETAILS**

- Mantels • Wainscoting • Balusters & Stair Rails • Window & Door Trim • Ceiling Panels • Inglenooks
- Mouldings • Newel Posts • Book Cases • Coved & Turned Work • Chimney Pieces • Picture Mouldings
- Stair Halls • Window Seats • Pilasters & Brackets • Archways • Panel Doors • Hall Furniture • Side Boards

**Queen Anne House Plans & Elevations**

In 1891, architect George Barber published the ultimate Queen Anne pattern book: 120 stunning designs for houses, stables, gazebos — plus fences, gable ornaments, newels & balusters, and brackets. Barber's fanciful designs were available as plans — or he'd even ship you pre-fabricated ornamental details if you wished. Many Barber houses were built, and those that remain are the most picturesque of all late Victorian homes.

Now available in a reprint edition, Barber's plans still dazzle. Whether you want to re-create some exterior gingerbread for your Queen Anne, or just want to feast your eyes, you'll love Barber's Cottage Souvenir. 168 pages, softbound, $17.50 postpaid. Use Order Form in this issue.

**Practical Window Treatments**

What do you do with the windows of an old house? Cafe curtains, neo-colonial ruffles, & Venetian blinds are stock answers for newer houses, but they just don't do justice to old windows. Museum-quality drapery and wood valances are too expensive for many of us — and aren't always desired, either.

Author Angela Fishburn solves the dilemma in Curtains And Window Treatments. Her book covers all the practical, appropriate choices for old windows. It examines the broad categories: window styles; tracks, fittings, & accessories; color, design, & fabrics; tools & equipment; seams & stitches; linings & interlinings. The book covers the specific types of curtains & the techniques for making them. You'll learn how to estimate & cut fabrics; make French pleats; design & construct pelmets; shape valances, swags, & tails; build roller blinds, Roman blinds, festoon blinds. There's even a chapter on the various types of tie-backs. If you're all for doing something appropriate but simple for your windows, now you can do the job right.

To get your copy of Curtains And Window Treatments, check the box on the Order Form, or send $18.95 to The Old-House Bookshop, 69A Seventh Ave., Brooklyn, NY 11217.

**The Field Guide To American Houses**

A Field Guide To American Houses is more than simply a field guide: it isn't a superficial pocket manual or some oversized coffee-table book. It's a down-to-earth, fully researched overview of more than 300 years of American vernacular architecture.

Are you disappointed by all the other field guides, which somehow manage to overlook your house? If so, we think you'll love this book. Authors Virginia and Lee McAlester have covered the regional variations in architectural styles more comprehensively than any book we've seen. Everything's here — Folk, Colonial, Romantic, Victorian, Post-Victorian, Contemporary — the principal styles and their subgroups. And the book has over 1200 illustrations: rare and beautiful house photos as well as drawings that pinpoint details of windows, doors, cornices, porches, and much more.

To get your copy of A Field Guide To American Houses, just check the box on the Order Form, or send $22.45 (includes UPS shipping & handling) to The Old-House Bookshop, 69A Seventh Ave., Brooklyn, NY 11217.
A New Tool For Old Houses:
The Makita Professional Screw Gun

Through our own experience restoring old houses, the OHJ editors have discovered a contractor's secret: the versatile, time-saving Screw Gun. Once you own one, you'll find that it will help you finish many old-house jobs quickly and neatly -- and it'll also help you save fragile plaster and cabinetwork.

This is an industrial-quality, electric-powered screwdriver, perfectly safe to use. Unlike a nail gun, which actually shoots nails and can be dangerous if used carelessly, the Screw Gun is always under your control. The Screw Gun operates on the same principle as a standard variable-speed electric drill. But instead of a chuck for a drill bit, it has a magnetic screwdriver bit surrounded by a little sleeve. You can adjust this sleeve to control the depth to which you drive the screw. Set it once, and drive screw after screw to exactly the same depth in just seconds each. The Screw Gun's motor isn't subject to the wear & tear of stalling (which happens when you adapt an electric drill as a screwdriver).

The Screw Gun is used by contractors who have to fasten Sheetrock to metal or wood studs. With it, they can quickly drive many screws to the same depth, without ever tearing through the Sheetrock's paper face. You'll love its speed and control when you tackle that job, too.

Why the Screw Gun is an Old-House Tool:
- It will attach Sheetrock patches without damaging the already fragile surrounding plaster.
- If you make a mistake installing a patch, it can instantly withdraw the screws.
- Using screws in combination with plaster washers, it can resecure plaster that has separated from its wood lath. Or you can attach the whole plaster/lath assembly back to the studs or joists with plaster washers and longer screws.
- It's excellent for attaching furring or shelf nailers to existing plaster.
- It's fast & strong for building new plywood cabinetry.
- If your old house has built-in cabinetry, it can strengthen them easily and professionally, and resecure them to the wall as well – hammering in nails would only knock the cabinets apart even more.

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Most of the buildings featured on this page are residential, but a subscriber from Croton-on-Hudson, New York, submitted a non-residential remuddling we just couldn’t refuse.

Dear Remuddling Editor:

Enclosed is my claim on your Remuddling bounty: An addition to one of God’s old houses.

I came upon this remarkable job at Clayton, in the extreme southwest corner of Massachusetts. The original church is, as you see, a very lovely little Shingle-style building — a beautifully simple composition in a small rural center. Between the church and the road is an old burial ground with an iron picket fence, weathered stones, and fading flags.

The addition, I suppose, is also clean and simple — notice how the three new front windows echo the original windows. And no doubt the new walls are going to be shingled to match, too. So there’s an attempt at keeping in keeping. But look at the crude side windows, the bald new doors, the cement stairs, and the awkward vents and chimney. Where did these good people ever get the idea that one could, in any satisfactory way, hope to stick an immense addition onto the side of a small unified design, complete in itself? If I were God, I’d move.

Yours truly,
David Roessler, Architect
Croton-on-Hudson, New York
THE COMFORTABLE HOUSE
Post-Victorian Domestic Architecture

By Clem Labine & Patricia Poore

Most of us live in houses that, though old, don't even get mentioned in architectural stylebooks. This article is an appreciative look at the most familiar old houses in America—houses found on the East Coast and the West, in semi-rural areas and small cities, in revival neighborhoods as well as old ethnic ones. These houses have a history we need to understand, and so come to respect, if we want to preserve the familiarity of most of the country.

"POST-VICTORIAN" is an umbrella term for the styles we'll describe on the following pages. Rather than conjuring up a single image, Post-Victorian refers to the era, and a changing attitude that affected the look of built America in the decades around the turn of the century.

The post-Victorian building boom introduced the house as we know it today. These homes were built with amenities we take for granted, and with an emphasis on serving utilitarian needs. It was an era of pattern-book designs, mail-order houses, and speculative building, but methods and materials were generally of better quality than in post-World-War-II houses: Walls were plaster, doors were solid wood. Many of the selling points recognized by today's home-buyer appeared in the builders' ads 75 years ago.

The plan of the early 20th-century house was "open" and "comfortable;" large windows, pergolas, and porches provided "plenty of sun;" the indoor "sanitary bathroom," closets, and a kitchen with built-in cupboards became standard features. For the first time, too, central heating was designed into the new house; basements were equipped with laundry areas and clean-storage coal bins.

On the exterior, ornamentation was far plainer than that of the Victorians; made simple statements of "honesty" or nostalgia. The squarish dignity of many of these houses can be quite charming, especially when history is read into their appearance: The apparent plainness might express the faint stirrings of the Modern movement; it might be the stripped-down result of a generation fed up with the conspicuous, overworked, expensive decoration of the Victorians; or it might just reflect economy.

Decoration was by no means gone, though. We have only to think of architect-publisher George Barber's lavish late Queen Anne houses (1888-1915, see Dec. 1980 OHJ), or the half-timbered and rusticated Tudor Revival houses, to remember that ornament, if diverse, was still around.

continued next page
THE CHARTS on this page are an attempt to bring some order to the multitude of styles in domestic building around the turn of the century. Style names at the top of each chart represent major architectural categories or movements; as you read down the charts, you will find sub-categories of the major house types.

IN OTHER WORDS, these are not lineal charts. Sub-categories are not necessarily later versions of the style above. For example, Mission Revival actually predated Spanish Colonial Revival houses.

KEEP IN MIND that within many of the broad style categories, there might be three expressions of the style: (1) The cottage, a one or one-and-a-half storey house; (2) The villa, a house that might belong to a prosperous businessman; (3) The mansion, a big, rich house.
IF WE HAD TO CREDIT just a few of the forces responsible for the look of early 20th-century domestic architecture, the list would look like this:

(1) Reaction against Victorian excess.
(2) Return to nature and basics—a renewed search for simple truths, honesty in workmanship, and the rustic.
(3) The growth of the middle class, which meant a proliferation of single-family houses and the growth of suburbia.
(4) The 1876 Centennial Exhibition in Philadelphia, which spurred patriotism and a nostalgic longing for an American identity that would extend back to the Colonies.
(5) The 1893 Chicago Columbian Exposition, which created the passionate desire for anything that was Classical and white.

NOSTALGIA came in two flavors just before the turn of the century: English and American. The English Revival styles carried a connotation of taste and wealth, while the American, or Colonial Revival, styles were associated with patriotism and restraint. Nevertheless, plenty of English-inspired cottages were built by speculators, and the millionaire class often chose Colonial Revival for their mansions. These romantic revival styles had emotional appeal for almost everybody.

ADHERENTS of the Craftsman ideal, however, were not "everybody." They went in quite the opposite direction from the romantic revivalists. If the fashionable words of the Post-Victorian era were "comfort" and "utility," then Craftsman-inspired architecture epitomized the era. Here was an intellectual philosophy based on comfort and utility.

THE CRAFTSMAN MOVEMENT was led by Gustav Stickley, the Roycrofters, and other designer/manufacturers on the shoulders of William Morris and England's Arts and Crafts movement. The Craftsman magazine, published by Stickley from 1901-1916, was perhaps the intellectual leader of the Post-Victorian era, becoming an arbiter of taste on every aspect of domestic life. Through the magazine, proponents of "the new art" influenced architecture, interior design, furniture, even the moral climate of America. The Colonial Revival was its antithesis in its reproduction of old forms.

THE EARLY BUNGALOW is probably the type most often associated with Craftsman ideology. This extraordinarily popular house was known for its lack of pretension, use of natural materials, and integration of house with its surroundings. But by the 1920s, it had become the preferred builder's model, made to carry all manner of incongruous "features" depending on what was selling at the time. For us today, these vernacular structures are little capsules of the criss-crossed influences of the time.

"THE NEW ARCHITECTURE" had by 1920 taken a back seat to the romantic styles and the Beaux Arts resurgence, particular due to the Columbian Exposition. Besides, nothing changes overnight: Eclecticism and High Victorian hadn't been left far behind. For example, after the Centennial Exhibition fostered patriotic consciousness and the Colonial Revival, it wasn't uncommon to see a High Victorian drawing room with a spinning wheel in the place of honor. The spinning wheel was the reminder of the simple life, honest work, and the beginnings of America. The most important thing—then as now—was the symbolism.

ANY MORE THINGS INFLUENCED domestic building than just revival styles and the honest new architecture of utilitarian beauty, of course. By the time the Colonial Revival, Craftsman-inspired houses, and all the important styles had filtered down to those vernacular houses a generation later, they had been transmogrified into something very different indeed.

A NEW HOUSE often spoke the answer to the builder's own question: "What's selling?" It could be the sweet appeal of an English Cottage, or the more ridiculous Craftsman Colonial, a sure-fire seller that neither builder nor buyer realized was a contradiction in terms. Now that time has blurred some of the philosophical distinctions, did it matter if its proud new owner didn't understand Stickley's principles of usefulness and beauty, or the antecedents of real colonial homes? Both Craftsman-inspired honesty and the nostalgia for early America appealed to the buyer, and the house he bought is our record of what people wanted in 1915. Vernacular styles had become something in their own right.

The Styles

WE'LL FIRST BREAK Post-Victorian houses into two major philosophical movements, both of which were born in the Victorian era: Romanticism and Utilitarianism. Romantics, or Revivalists, felt that houses should evoke an emotional response, based upon association with historical events. During the 1800s, the Greek Revival, Gothic Revival, Italianate, and Queen Anne styles were all associative romantic styles. In the early 20th-century, the Colonial Revival, Spanish and Mission Revivals, and the English Cottage and Country House styles continued the tradition, using symbols and archaeological references which summoned certain emotions in the viewer.
WHAT WE'LL CALL Utilitarian was reformist, rebelling against the emotionalism of the Romantics. Led by William Morris and the Arts and Crafts movement in England, and publicized in this country chiefly by Gustav Stickley through his Mission furniture and The Craftsman magazine, the Utilitarians sought to eliminate what they saw as useless decoration, and to focus instead on that which combined usefulness and beauty. This intellectual/philosophical movement had a great influence on the architects of the Prairie School and Southern California, and also affected almost all of America's domestic architecture to this day.

THERE ARE MANY WAYS to reshuffle houses into "style groups." Architecture is not like biology, however; we can't assign every house a genus and species name. Categorizing buildings is arbitrary. All we can do is group houses according to certain physical similarities, taking into account the events, people, and ideas that made them look the way they do. To that end, following are the major post-Victorian house types we've isolated.

Romantic Styles

Colonial Revival

WITH THE CENTENNIAL EXHIBITION of 1876, America began a romance with its architectural roots that continues to this day. People were seeking a purely "American" architecture to nourish their patriotic pride. It was natural that they should look back to the houses constructed by the Colonists, houses which had been standing on American soil for 100 or 150 years. These models for the Colonial Revival, of course, had been built on English prototypes. But the Post-Victorian Colonials that were built were interpretive, and themselves became a very American house form.

THERE ARE TWO basic types of Colonial Revival buildings. First are the historically accurate reproductions. When well done, they are difficult to distinguish from the originals. Needless to say, this variety of Colonial Revival house is a rarity.

THE SECOND, more common type of Colonial Revival house was created when freely interpreted colonial motifs were applied to house types that were clearly Victorian or post-Victorian. For example, a very popular Colonial Revival house is really a large, asymmetrical Queen Anne house with grafted-on Georgian details, such as Palladian windows, quoins, swags and garlands, and classical columns. Such "free Colonial" houses are found all over the country.

THE DUTCH COLONIAL HOUSE is an important part of the Colonial Revival because it pre-dated other revival styles and became extremely popular for a long time. Its distinctive gambrel roof makes the Dutch Colonial instantly recognizable. A very flexible design feature, the gambrel roof was grafted onto everything from tiny cottages to voluminous two-story homes. The Dutch Colonial style, unlike the more formal styles, reminded people of early farmhouses, giving the style a cozy, informal intimacy that's popular even today.

ON THE EAST COAST, the return to architectural roots meant a return to the English-based prototypes of the 17th and 18th centuries. On the West Coast, and in the Southwest, the colonial precedents were Spanish. The Mission Revival--based on re-use of the architectural forms of the Spanish missions--had taken hold in California in the 1890's. However, the much broader-based Spanish Colonial Revival was given a major boost by the Panama-Pacific Exhibition held in San Diego in 1915.

THE SPANISH COLONIAL HOUSE is most readily recognized by its low irregular massing, stucco walls, and red clay tile roof. High walls topped by a red clay tile coping, enclosing a garden or patio, are another popular feature.

THE SPANISH COLONIAL REVIVAL, of course, was most often built where its prototypes were found: California, Florida, and the Southwest. However, home-buyers with a taste for the exotic had Spanish houses built all over the country--even in the Northeast, where low-pitched red tile roofs are hardly ideal for the harsh climate.
VEN AS SOME ARCHITECTS in the U.S. were striving for an "all-American" architecture, others in the romantic movement were looking back to the Old World for a sense of tradition and cultural values. Although there are some French, Italian, and Spanish prototypes that served as models for the revived interest in European architecture, most of the models came from England (as they did in the Victorian era). The new interest in English architecture began around 1910, after the crusade for an all-American architecture had peaked.

THE ENGLISH STYLES

There were three basic English housing styles that found favor in the U.S. during the Post-Victorian era: (1) Tudor; (2) Cottage; (3) Country House. All can be termed "picturesque," but they differ significantly in the details.

**Tudor Revival**

The Tudor Revival house is readily identified by its half-timbering. Other features include numerous prominent gables, large medieval chimneys, and large, expansive windows with small panes set in lead casements. The nomenclature can get a bit confusing, however, since this house style can also be called "Elizabethan" or "Jacobean." One architectural historian threw up his hands and settled for the tongue-in-cheek term "Jacobethan."

A major attraction of the Tudor house was its picturesque composition, coupled with its association with the "Merrie Olde England" legend that had been fostered by numerous writers throughout the 19th century. The Tudor house began attracting attention from American architects as early as the 1880s, four decades before the English Cottage and Country House styles reached equivalent popularity in this country.

The most prominent Tudor detail was the half-timbering, which suggested rugged, hand-hewn strength. Since in the Tudor originals, the half-timbering was part of the actual framing system, this gave the Tudor house the added modern virtue of "honest expression of structure." (Of course, in the Tudor Revival buildings the half-timbers were merely decoration applied over a conventional frame. But at least the Revivals gave the illusion of honesty.)

**Cottage Style**

LIKE THE TUDOR REVIVAL HOUSE, the English Cottage style is picturesque, but its prototypes are the all-masonry rural farmhouses of England rather than the larger timber-framed Tudor houses. The English Cottage house is described with words like "charming" and "quaint," and by emotional association embodies all the rustic honesty and simplicity of the English yeoman. It is a truly "homely" dwelling, suggesting hearth, family and all the domestic virtues.

The English Cottage looks as if it grew organically, suggesting that the owner built the house himself using stones that he tore from the land with his own two hands. Surrounding gardens and shrubs tie the cottage even more closely to the land.
Quite different from the Cottage style is the more polished and sophisticated English Country House style. In England, during the period from the turn of the century right up to World War I, there was a great flowering in the architecture of country houses. Country seats, once the province of the aristocracy, became affordable to the newly prosperous business class. Edwardian architects such as Edwin Lutyens and Ernest Newton designed self-assured if unintellectual houses for their well-to-do clients.

For some in America, the English country house was the ultimate in good taste, traditional values, solidity, and old world charm. Little wonder, then, that many well-to-do Americans in the 'teens and 'twenties had their architects design for them a North American version of the English country house.

### Utilitarian Styles

#### Craftsman

Utilitarian house styles can be split into two broad groups. First are those that sprang from a well-articulated philosophy, such as the Craftsman movement. Then there are those houses that evolved from vernacular American building forms.

Stickley published plans for many types of houses in his magazine. Because of this, strictly speaking there is no single "Craftsman" style—although there is a type of house that has come to bear this title. "Craftsman" was more a philosophy than an architectural style, and many houses, from simple cottages to large two-storey dwellings, can rightly lay claim to being "Craftsman."

There is also a philosophical and stylistic connection between the "Rectilinear Style" of the European Art Nouveau and the Craftsman/Mission design that was being done in America. The work of architects like Mackintosh in Great Britain and Frank Lloyd Wright of the Prairie School bears a striking similarity to the work of Craftsman designers, the Roycrofters, and to the appearance of the bungalows built in Southern California around this time.

#### Bungalow

Craftsman architecture has become identified with the bungalow. But the ubiquitous bungalow spread far beyond the confines of the Craftsman philosophy. The term "bungalow" can be applied to any picturesque one-storey house with a low-pitched roof and surrounding porches. Although Craftsman-inspired bungalows were common, it adapted well to the Spanish Colonial style for California, the Southwest, and Florida. The bungalow also appeared in such styles as Prairie, Swiss Chalet, Japanese, Adirondack Lodge—and even Greek Revival.
single floor made the bungalow extremely popular. The bungalow has disappeared from the builder's repertoire. A descendant, however, has replaced it—the modern ranch house.

**American Foursquare**

If the bungalow turned out to be the least house for the most money, then the popular American Foursquare was surely the most house for the least money. Not only did its box-like shape and hipped roof provide ample room for America's growing family, but it also epitomized the Craftsman ideal.

Although we don't today associate these unpretentious houses with the "Craftsman Style," Foursquares did in fact appear regularly in Stickley's magazine. And going by Stickley's dictum that "The ruling principle of the Craftsman house is simplicity," the Foursquare measures up admirably. The American Foursquare is simple, honest, substantial, practical and economical.

Builders had a good time with it, too. Put an ersatz Palladian window in the dormer, and you could advertise "Colonial styling." Make the all-important porch of fieldstone, shingle the sides and call it "artistic." Extend the roof eaves, stretch out the porch, stucco the exterior and you've got a Prairie Style house.

Because the Foursquare was so adaptable and so practical, many thousands were built from the turn of the century through the 1920s. You can find this house in practically every neighborhood.

**Prairie**

Often associated with Louis Sullivan and Frank Lloyd Wright, the Prairie style flowed from the same reformist wellspring as Bungalows and Craftsman houses. It is identified by its emphasis on the horizontal line. In its classic form, the building is low and spread out, with broad low roofs cantilevered over walls and porches. Solid walls around porches and walks, as well as the massing of the house, create deep recesses and shadows.

Stucco was the most common material used for siding on prairie houses, followed by Roman brick, coursed stone, and wood. With the exception of stucco, all siding materials were arranged in ways to emphasize the horizontal. In brickwork, for example, often the horizontal joints are deeply raked (creating dark horizontal shadow lines), while the vertical joints would be flush.

Materials generally had an integral finish. That is, if the stucco were to be colored, the coloring agent was added to the stucco mix, rather than applying paint after the stucco had dried. Wood siding was often stained, rather than painted.
In addition to the styles that had firm intellectual foundations, another type of house was popular in the early 20th century—the Homestead House. Its various forms derived not from philosophical theories printed in monthly magazines. Rather, it was an evolved style, having developed over a century of trial-and-error building by owners and contractors alike.

Homestead Houses had been built throughout the 19th century as farmhouses—the most utilitarian of all house types. The rectangular shape of the house body made it easy to frame and sheathe. The straightforward gable roof, lacking hips and valleys, was likewise easy for the country carpenter to lay out. And two storeys under one roof provided an economical ratio of floor-space to building shell.

The Homestead House variants here, therefore, came from the suburbanization of the ubiquitous country farmhouse. Its distinctive shape, along with a lack of pretense to any "style" at all, makes the Homestead house a recognizable style all its own.

The Princess Anne house is a direct descendant of the Queen Anne style. It retains the asymmetrical massing, complex roofline and large chimneys of earlier Queen Anne houses. In keeping with the early 20th century desire for simplicity and restraint, however, the Princess Anne house exhibits little of the exterior ornamentation of its more exhibitionistic parent.

By calling this style Princess Anne, we're emphasizing that it is a direct lineal descendant of the Victorian Queen Anne style. Queen Anne houses were immensely popular during the 1880s and '90s, but by the turn of the century, the style was falling out of favor because of its elaborate exterior.

Tastemakers at the turn of the century were urging simplicity and restraint as the hallmarks of good taste. When they railed against the vulgarity and pretentiousness of earlier decades, the Queen Anne house was one they had in mind. Nevertheless, the asymmetrical plan of the Queen Anne allowed a lot of flexibility, and its ample interior space was still popular with home-buyers. So it was updated: Builders stripped off much of the ornamentation and simplified the exterior. This way, the house was also cheaper to build.

This survey article is only the beginning! In the coming year, we'll be running a whole series of articles about Post-Victorians, with more pictures that show variations of each style. Next month: The American Foursquare. A book about early 20th-century houses will be published by The Old-House Journal this year.

Images Of American Living by Alan Gowans looks at American architecture and furniture as cultural expression. Neither a stylebook nor a conventional art history book, Images Of American Living is a book to be thoughtfully read. It covers our history from the 17th century to 1960. Those who want to know the "who and what" behind architecture will find it fascinating, as we did. You can order the book from Harper & Row Publishers, Mail Order Dept., 10 E. 53rd St., New York, NY 10022. Phone (800) 638-3030. The book costs $15.95 postpaid.
A New Look At LINOLEUM
Preservation’s Rejected Floor Covering
By Leo Blackman and Deborah Dietsch

EXPERIMENTS IN THE MID-19TH CENTURY were tried in order to develop more durable and resilient floor coverings. Exotic combinations, such as coconut fibers impregnated with cement and shredded sponge mixed with paper pulp, met with little commercial success. An exception was Kamptulicon, invented by Elijah Galloway in 1844. It was produced by heating India rubber, mixing it with granulated cork, and forcing the mixture between smooth cast-iron rollers. Although more permanent than its predecessors, Kamptulicon was very expensive to produce, so it was used only by the wealthy, or in public institutions. Linoleum was an outgrowth of this search for a more substantial and less expensive floorcloth.

LINOLEUM DESERVES renewed attention as a floor finish in its right, reflecting an important period of American taste and history. Although it was a commonly used floor covering in turn-of-the-century houses, it is rarely considered in today’s interior restorations. Viewed as an enemy by restorers searching for hardwood finishes, countless yards of linoleum are enthusiastically ripped off floors. Discarding it in favor of tile or carpeting, many homeowners fail to realize its historic importance.

THE ORIGINAL APPEAL of linoleum was based on its qualities as an inexpensive, adaptable, and resilient flooring. Patterned to resemble more expensive finishes such as tile, wood, stone, mosaic, and carpeting, it was offered in a myriad of styles. By 1918, it was being marketed for use in every room of the house. Not only was linoleum used to cover existing floors, but it also became standard flooring in new construction. Its popularity stretched from its invention in 1863 until 1974, when Armstrong discontinued its production.

Floorcloths

PAINTED FLOORCLOTHS, the precursor of linoleum, were used throughout the 19th century. The earliest description of a floorcloth dates from 1760; as late as 1909, similar oilcloths were still being offered in Sears catalogues. Floorcloths were made by waterproofing coarse fabric, woven of hemp or flax, with oil paint. First, the fabric was stretched and coated with hot starch to stiffen and seal it. Once dry, the surface was smoothed with a pumice stone and paint was thickly applied to both sides of the fabric. After several applications, a final coat of higher quality paint was brushed on. Colored patterns were painted by hand, stencilled, or stamped on the surface with wooden blocks. After drying for several days, the cloth was varnished. This made the floorcloth waterproof and relatively easy to maintain, but its painted surface wore off quickly.

HE WORD “LINOLEUM” comes from two Latin words: linum, flax, and oleum, oil. Linseed oil, a heavy, amber-colored fluid pressed from flax seed, is linoleum’s chief ingredient. When exposed to air, it begins to thicken, changing into a tough, elastic material. Recognizing this quality, English
Manufacturers applied linseed oil and fillers to a cloth backing in hopes of creating a superior floorcloth. Frederick Walton was the manager of Staines Co., a rubber and linoleum factory in England. While it's not clear who the original inventor of linoleum was, Walton can be credited with bringing the process and the product to America.

Walton's process used linseed oil and gum mixed with ground cork or wood flour, pressed onto burlap or canvas. He obtained an American patent for this process (but not the name) in 1869, when he formed the American Linoleum Manufacturing Co. in New York. (If Walton's name sounds familiar, you might recall his famous wallcovering--Lincrusta-Walton.)

The Armstrong Company in Pittsburgh, Penn., founded in 1860, was primarily a manufacturer of cork bottle stoppers when it began production of linoleum at its Lancaster plant. Linoleum manufacturing, first thought to be an easy way of using leftover cork, soon became the company's most profitable line. Other companies were involved in the early manufacturing of linoleum: Michael Nairn, a Scottish manufacturer of floorcloths who started a plant in Kearny, NJ (1870), and George Washington Blabon, who installed the first linoleum calendering machine in the U.S. in his Trenton plant (1886).

Marketing Genius was partially responsible for the popularity of linoleum. Prior to 1917, linoleum was generally considered a sanitary flooring for use in kitchens, bathrooms, and public institutions. In an attempt to change linoleum's drab, utilitarian image, Armstrong staged a massive advertising campaign after World War I.

The Armstrong Company in Pittsburgh, Penn., founded in 1860, was primarily a manufacturer of cork bottle stoppers when it began production of linoleum at its Lancaster plant. Linoleum manufacturing, first thought to be an easy way of using leftover cork, soon became the company's most profitable line. Other companies were involved in the early manufacturing of linoleum: Michael Nairn, a Scottish manufacturer of floorcloths who started a plant in Kearny, NJ (1870), and George Washington Blabon, who installed the first linoleum calendering machine in the U.S. in his Trenton plant (1886).

The company provided its salesmen with pocket-size pattern books containing color plates of available stock and offered courses in "constructive linoleum sales." Advertisements were placed in magazines such as Ladies Home Journal, Women's Home Companion, and McCall's to acquaint the woman of the house with the decorative, economic, and labor-saving potential of linoleum. It was promoted as an "artistic" yet "sensible" flooring that would blend with any color scheme or decor. It was easy to clean because, unlike wood, it contained no cracks or crevices to catch dirt, and was promoted as sanitary for the kitchen or bathroom. Linoleum patterned to look like Brussels carpet, encaustic tile, or wood parquet was considered suitable for living rooms, dining rooms, or bedrooms. The perfect "modern" material, it was also used for auto running boards, countertops, and boat decks.
THE RESULTING PLASTIC MASS, resembling wet clay, was transferred to a calendering machine, which consisted of a series of heated rollers. The cork and the cement mixture were fed into the top of the machine, burlap entered at the bottom, and the materials were pressed tightly together. The linoleum was then hung in drying rooms and "seasoned" for three to four days before being printed and thoroughly inspected.

Linoleum Types

ONE PATTERNS were available throughout the history of linoleum, others changed with current styles. "Hooked rug" and "wood planking" linoleum became popular during the Colonial Revival period; the 1930s and '40s saw the advent of Moderne-inspired patterns. A linoleum catalogue from the 1950s, while offering the mock-Jackson Pollock spattered effect, still featured standard Brussels carpet, jaspe, and wood designs.

OFTEN LINOLEUM was manufactured to a specific size, and printed to resemble a bordered carpet. Called a linoleum "rug," it was popular after 1910. Linoleum was also sold to be placed between a rug, either fabric or linoleum, and the walls. These linoleum borders were usually printed to resemble wood parquet or planking, and were sold in narrow rolls.

PRIOR TO 1927, linoleum was never textured and had a backing of canvas or hemp. In 1913-14, several manufacturers patented a process for calendering cork and linseed oil onto asphalt-impregnated paper. These products—such as Congoleum and Quaker rugs—were less durable and less expensive than canvas-backed linoleum. They were intended to make resilient flooring available to lower income groups.

UNTIL 1930, when embossed linoleum was introduced, five types of linoleum were available, each distinguished by the way it was manufactured. PRINTED LINOLEUM was patterned by machine painting with oil paints—one block for every color—on sheets of plain linoleum, typically brown. Printed linoleum was considered lower quality because the pattern was on the surface only. Many of the floral patterns were done in this manner.
Vinyl Flooring

Today, vinyl flooring patterns are still imitative of tile, stone, and wood—but there is a significant difference between vinyl and linoleum. The linoleum manufactured in the late 19th and early 20th century had a flat surface. In the search for verite and with the development of embossing machines, textured floors were introduced. Modern resilient flooring almost always has a sculpted surface to emphasize the pattern and to camouflage scuffing. Gone are the more charming attempts to capture the look of plush carpeting, encaustic tile, or oak parquet on a two-dimensional plane. Solid color and simple geometric patterns, resembling plain or inlaid linoleum, are also absent. However, faux-marble vinyl is standard and similar to jaspe linoleum. Armstrong has re-issued its most popular linoleum pattern, in vinyl, #5352, a red flooring used primarily in kitchens. Perhaps they could also be encouraged to revive other 19th and early 20th century patterns. In the meantime, some contemporary vinyl patterns can be adapted to resemble linoleum in old houses.

Linoleum's Fall--& Rise?

Materials which gave linoleum its strength and resiliency also imparted certain problems of longevity, and use. As linseed oil continues to oxidize over time, the material tends to grow brittle and crack. Its amber tint also restricted the color range of linoleum—whites, rich blues, and purples were impossible to achieve. Staining was caused by the tannic acid in cork reacting with iron furniture. Linoleum's canvas backing made it sensitive to standing water.

Plastic products developed after World War II were rapidly applied to flooring. Vinyl, a colorless, waterproof, and monolithic material, could easily be patterned and textured. It was composed of synthetic materials and could be given a permanent no-wax shine. By the 1960s, linoleum was seen as an inferior product. It could no longer claim to be the most inexpensive, maintenance-free, durable, and resilient flooring it once was.

In 1974, Armstrong discontinued manufacturing linoleum because of reduced demand. However, the current high cost of manufacturing petroleum products makes an organically-based flooring more appealing and could prompt new interest in linoleum.

Leo Blackman has a Masters degree in Architecture from Columbia University. This article is based on extensive research Leo did while at Columbia; his thanks go to Professor Norman Weiss of the Historic Preservation program there. Deborah Dietsch, also a graduate of Columbia, has joint degrees in Architecture and Historic Preservation. She was co-editor of "Precis," the School of Architecture journal. The authors are presently working for an architectural firm in New York City. They would like to thank Herbert Mitchell at Columbia's Avery Library, the Research Dept. at The Armstrong Co., and Mildred Longo at Fortunate Finds Books.

Next month, we will talk about preserving, restoring, and (if you were lucky enough to find some) installing linoleum.
Having only two hands becomes quite a problem when you find yourself precariously perched on a roof. This fact was pointedly brought to my attention several years ago. I had been thinking about repairing the chimney on my home. From the street, it was evident that the mortar joints between the bricks had eroded and a dangerous condition now existed.

In the past, I had done several pointing and repair jobs on the chimneys of buildings that I owned. But there was a major difference between my home and those apartment buildings: The apartment buildings all had flat roofs. These flat roofs did not pose the gravity problem that I was now facing on my own residence.

Getting up on the ridge of my roof was not a major problem. The real difficulty would be how to maintain my balance and at the same time use both hands to work on the chimney.

I also wanted to keep the bucket of mortar and all my various tools from falling off the roof. I figured that I would need one hand to hold the pointing tool and another to hold the trowel with the mortar. But I'd also need a hand to hold the bucket of mortar and possibly another hand to help me maintain my balance. If my arithmetic serves me correctly, I would need a minimum of three hands!

I have only two hands, so I decided to ask for advice from the experts. I checked with several local masonry dealers and contractors, and received many different suggestions. Some told me to hang the bucket of mortar from the chimney. Others suggested that I build staging adjacent to the work area. A few told me to hire a mason to do the job.

None of these answers satisfied me. It would be difficult to work on the chimney and at the same time have the bucket of mortar hanging from it. Moreover, the chimney was directly in the center of the house, and so building staging would not serve my purpose. This job became a challenge to me, and I decided to create my own extra hands.
WHAT I CAME UP WITH worked better than I had anticipated. I hope that some of the readers can use it not only for work on their chimneys but for any repairs that have to be performed on a high-pitched roof.

MY CREATION WAS SIMPLE. I merely took an existing item and slightly modified it. I used two roofing racks or brackets (the type used by roofers when they planked a roof). I made up two pieces of angle iron that I bolted to the metal ends of the roof brackets. With the addition of the angle irons, the roof brackets could now be hung securely on the ridge of the roof. They could also be adjusted to any pitch that might be required. I then added a short plank across the two mounted roof brackets, screwing it onto both wooden bars. Voilà! I had solved my problem. I could safely set on the platform not only my mortar, but also any tools that I might need. The possibility of anything sliding off the roof was now eliminated. And there was no potential for an accident from having tools underfoot. I only needed two hands after all—and a little imagination.

On Repair

1 SAFETY FIRST: When working on a roof, wear soft-soled shoes—preferably high-top sneaker with good ankle support. If the roof is especially steep, lay a ladder on the roof and secure it with a safety bracket hooked over the ridge. You should also wear a nylon safety belt with a nylon lanyard. But if heights frighten you, have someone else do the job.

2 CUT IT OUT: Repointing a chimney involves the removal of all loose mortar, to a depth of at least an inch, and replacing it with new mortar. Once the defective mortar is removed, be sure to brush out all dust and loose material.

3 DON'T FORGET TO FLUSH: Be sure to hose down all areas that will be repaired. Flushing with water will help get rid of any remaining particles of mortar, as well as moisten the areas that will be receiving the mortar. Failure to wet down these areas may result in the adjacent bricks absorbing moisture from the mortar. This in turn can create weak joints.

4 MATCH THE MORTAR: Nobody can really see the joints in masonry way up on the roof, so why bother matching the existing mortar? Well, there's a practical reason as well as an aesthetic one. Some mortars are too rigid for certain types of brickwork. When the bricks expand in hot weather, they'll break on the hard mortar; when they contract in the cold, they'll crack away from the mortar. For more information on matching mortars, consult The Repointing of Historic Masonry Buildings by

The Finished Product

THIS RACK IS INTENDED to hold only tools and supplies, not people. DO NOT STAND ON IT. If you need a larger platform to support yourself as well, and you're willing to spend some money, then a chimney scaffold such as Goldblatt's is an excellent idea. Or you could hire a mason--many people find it far more pleasant to remain on the ground than to climb around on the roof. But if you're a do-it-yourselfer who is not at all squeamish about heights, then I think you'll find that this portable rack can be a great help. It's certainly been a help to me!
On Maintenance

1. TV ANTENNAS: Don't use your chimney as an anchor for a TV antenna. A great many chimney problems are directly related to the structural stress placed on them by the antenna's movement in strong winds. An additional problem occurs when the rusting metal starts to stain the chimney.

2. FLUE LININGS: Many older homes do not have chimney flue liners. Mortar and bricks in an unlined flue are directly exposed to the action of flue gases and will disintegrate. This disintegration, along with harm caused by temperature changes, can open cracks in the masonry. These cracks will reduce the draft and increase the fire hazard. They also permit poisonous flue gases to escape into the house. If you presently have a chimney that is not lined, then you should seriously consider having a liner installed.

3. CHIMNEY FIRES: If you are burning wood in either a fireplace or a wood-burning stove, then the formation of creosote is unavoidable. The chimney should be cleaned frequently; never wait more than a year between manual cleanings. Some people clean their chimneys by burning a very hot fire for a period of time each day. If you are burning wood in an air-tight stove, then consider cleaning after every 3 or 4 cords of wood. Failure to clean out creosote buildup will result in a fire. A professional chimney sweep will clean your chimney, fireplace, and stove for a very reasonable fee.

4. CHIMNEY FLASHING: You should have strips of metal around the chimney/roof line. This flashing sometimes pulls away from the chimney. Many chimneys have lead flashing, which can be gently tapped back into place. Other types of metal flashing can be repaired by applying roofing cement both under and over it. (This procedure is what we call "the black-gunk solution." It works—at least for a while—but you have to check it and maintain it diligently. At some point the metal flashing itself will require replacement. Just remember never to use the black-gunk solution on visible areas of the roof. —The Editors)

5. ANNUAL CHECKUP: Go over your chimney once a year. Repair those minor problems before they become major headaches. If you have any suspicions about the safety of your chimney, then consult a professional. Check your local directory under the headings for masons, chimney sweeps, or a professional group such as the American Society of Home Inspectors.


5. USE THE RIGHT TOOLS: I use two trowels, a broad one to hold the mortar and a thin one to push it in. Don't be afraid to use a lot of mortar and really pack it in hard. You should strike the joint for weather-tightness and a neat appearance. I prefer concave joints, which should be made with a convex jointer.

6. PRE-HYDRATION: Many masons pre-hydrate the mortar to prevent it from shrinking excessively. To pre-hydrate, you first have to mix up your ingredients with just enough water to produce a damp mass that will retain its form when compressed into a ball. Then let it set for an hour. Afterwards, mix it with the amount of water required to produce a stiff but workable consistency. This technique is still rather controversial, however. Conservation experts and professional masons say that pre-hydrating is an unnecessary procedure that weakens the mortar. Today's Type S lime has many advocates; it's already pre-hydrated and so doesn't require this procedure.

7. CURE IT: Concrete work is usually cured; that is, the cement is kept moist until it develops its maximum strength. I think even mortar joints should be cured as well, to ensure that they don't dry out too rapidly. There are a couple of ways this can be done. One way is to hose down the chimney for 3 consecutive days. Another way is to keep the chimney draped in damp burlap for at least 3 days—but don't do this if the chimney is in operation!

8. MURIATIC ACID: No matter how diligent you are when you work with cement, you will get some stains on the bricks. Wait a day or more after working on the chimney repairs, and then use a solution of 1 part muriatic acid and 10 parts water. This solution should remove any cement stains. Please note that this acid is strong, so carefully read and follow the directions on the container. Be sure to hose down the chimney afterwards, to remove any remaining salts.
Refinishing Clinic
Using The Right Products

HOMEOWNERS WORKING WITH WOOD frequently feel that they are confronted by a multitude of fillers, sealers, stains, dyes, putties, shellacs, lacquers, waxes, oils, and varnishes, each potion with its own devotees and detractors. This Refinishing Clinic should help to demystify these products. We'll be examining what they are, what they can do, and which woods they're appropriate for.

Fill Compounds

SOME WOODS, such as oak, mahogany, and ash, have an open grain. These "large-pored" woods have an exposed cellular structure and will need to be filled with paste wood filler prior to varnishing. Without this filler, a smooth finish is difficult to achieve. Generally, filling will not be done if you'll be using an oil finish. Sometimes renewed old wood doesn't need filling the way brand-new, unfinished wood does. Test in an inconspicuous place.

FILLING COMPOUNDS come in three varieties: paste wood filler, putty, and plastic wood.

PASTE WOOD FILLER is used before varnishing, but not with penetrating oil finishes. It packs the small, exposed cell structure of open-grain wood in such a way that finish varnish flows over the surface. (It's very difficult to get a smooth varnish job on open-grain wood without filling.) Be sure to read the label: Some paste wood fillers are supposed to be applied after the stain; others, prior to staining. It's generally recommended to choose a product used prior to staining, as it avoids the greyness that occurs in certain woods. Paste wood fillers also come in many colors. In making a selection, you should try to approximate the basic color of the wood. This stuff is not intended for use as a crack filler; there are other compounds for that purpose.

Manufacturers of paste wood filler include Daly's, Behlen, Zar, Gulf, Duratite, and Elmer's.

PUTTY is best for filling nail holes, and is to be used after staining and sealing. Use it last of all if you're doing an oil finish. Use it after the first coat of varnish, but before the last coat. If you use it before the finish is applied, you may stain the wood. There are two basic types of putty.

(1) NON-HARDENING OIL-BASED: This kind is tinted to the final color by the user. It is the same as the putty used for glazing windows.

In a pinch, synthetic glazing compounds work as well.
(2) WAXY FILL STICKS: These are crayonlike sticks that come pre-tinted to the final color. Manufacturers of glazing compounds and non-hardenning oil-based putty include Dap, Bix, Rutland, and Durham's. Manufacturers of waxy fill sticks include Minwax and H.F. Staples & Co.

PLASTIC WOOD is a hard-drying cellulose compound used to fill larger voids. While often sold to fill nail holes as well, it is not nearly as good as the softer putties.

Manufacturers of plastic wood include Boyle-Midway/3-in-1.

Interior Prime-Sealers

WOODS SUCH AS A5 pine, fir, hemlock, and maple are close-grain woods. They have a smooth texture and need not be filled prior to the staining and finishing steps. Old, previously finished wood which has been stripped probably won't need primer-sealer either. New wood or heavily-sanded old wood should be "sealed" prior to staining or finishing.

A NOTE ABOUT interior prime-sealers: The word "sealer" is somewhat misleading. In the context of priming surfaces, these products should not be confused with finishing compounds such as penetrating oil finishes, which actually "seal" the surface with a coating. What these products do instead is set the wood grain prior to the application of stains or finish coats. Without priming, the final result can be rough and uneven (especially when bare or sanded wood is stained). Without the prime-sealer, dark, spotty areas can appear where wild-grain areas absorb more stain or finish than the rest of the wood.

Manufacturers of interior primer-sealers include most major paint companies.

Interior Stains

THERE ARE TWO GENERAL TYPES of interior stains: surface and penetrating. Surface types come in either a brushable varnish base, or a spray lacquer. Both surface types are hard to handle when working on fine pieces, so this discussion will center on the penetrating types, which can be applied with a rag.

PENETRATING STAINS are available in two types.
(1) PIGMENT: The major advantage of this type is that it is colorfast and easier to wipe.
(2) DYE: This type has excellent color depth and brilliance, but sun-fades badly. Dye stain is available in both a water-soluble
Interior Finishes

INTERIOR FINISHES come in two major categories: penetrating and surface. Penetrating finishes are usually dull or satin; surface finishes, gloss or semi-gloss. Surface finishes include lacquers, shellac, and varnishes.

PENETRATING FINISHES come in two types.

(1) WAX: Because waxes remain very light in color over a long period of time, they are excellent for panelling. They're also useful as a final polish to varnished wood. However, waxes tend to waterspot, and so require

(sometimes alcohol) and an oil-soluble base, both of which are non-grain-raising. Because of their depth of color, dye stains are often used in advance of a pigment stain as a pre-color and then treated with the pigment type for colorfastness and durability. In most instances, dye stains are best finished with a varnish system.

Manufacturers of pigment stains include Daly’s, Behlen, Benjamin Moore, and Zar. Manufacturers of dye stains include Behlen.
maintenance. Waxes also will build up if too many thick coats are applied—especially spray waxes. Avoid these; beeswax; too, which is quite soft, fingerprints badly, is not necessarily water-resistant, and builds quickly to a sticky surface.

(2) DRYING OIL FINISHES: Usually tung and linseed oil-based, these finishes are easy to apply. (There are no brush marks or dust to contend with; just rag on and wipe off the excess.) They have excellent wear characteristics and can be renewed easily. They also tone unstained woods. We don't suggest using straight linseed oil, however. It will darken with age and offers no resistance to alcohol, water, or mildew. It's also very slow to dry and tends to be sticky.

Manufacturers of wax finishes include Trewax, Butcher's Wax, and Minwax. Manufacturers of drying oil finishes include Daly's, Hope's, and Minwax.

SURFACE FINISHES are available in three types.

(1) LACQUERS: The one advantage of lacquer is that it's fast-drying. However, it isn't recommended for amateurs, who generally lack both the equipment and the experience needed to apply it successfully. There are some good brushable lacquers that can be successfully applied by a novice, but there are still drawbacks. Most lacquers have poor resistance to water and grease, and tend to be thin and brittle.

Manufacturers of lacquers include Behlen and Deft.

(2) SHELLAC: It is usually found on very old pieces of furniture, as well as some hardwood floors and woodwork. Shellac will discolor with age, is quite brittle, has very poor resistance to water, alcohol, and abrasion, and is very scratch-prone. So even though it is fast-drying and easily stripped and renewed, it should not ordinarily be thought of as an alternative to slower-drying varnishes—at least where high resistance to wear is needed. (It's OK for non-wear items such as picture frames.) Shellac may be used when you wish to duplicate an older finish for the purpose of color-matching, but a standard oil-based varnish should then be applied for maximum wear. (DO NOT use a urethane varnish over shellac; they are not compatible.)

Manufacturers of shellac include most major coatings manufacturers.

(3) VARNISHES: The three basic types of varnish available are plastic, non-plastic, and water-based.

- Plastic Varnish—called polyurethane or just urethane. These are very hard and very useful on new interior work such as cabinets and children's furniture. They are fairly fast-drying and harden quickly. BUT—urethanes may not bond well to older surfaces, especially if the older surface was shellacked (which is very common on antique wood). If the item has an older shellac job, and you plan to use varnish, then don't use urethane; use a standard oil-based varnish instead.

Urethanes do not do well on areas exposed to weather, especially direct sunlight. Thus they should never be used on front doors, exterior smooth siding, window trim, railing, or marine surfaces. The proper treatment for varnishing exterior surfaces is to use a standard marine spar. But don't use a spar varnish on interior items because the product is too soft and slow-drying.

Manufacturers of plastic varnish include Pierce & Stevens (Fabulon) and McCloskey.

- Non-Plastic Varnish—Although softer and slightly slower to harden than the urethanes, these varnishes will bond to most surfaces and are available in a wide variety of products to answer almost every need (floors, panelling, etc.). Should you decide not to use a penetrating oil finish, then this type of varnish should be used on antique wood items. (In another clinic, we'll give tips for dealing with dust specks and brush marks, which are hard for the novice varnisher to avoid.)

Manufacturers of non-plastic varnish include McCloskey, Behlen, and Hope's.

- Water-Based Varnish—At this time, water-based acrylic varnishes need further development if they are to be considered an adequate wood finish. Most of those tested don't harden well enough and tend to feel sticky. They don't level well either, so brush marks show up even more than they do with traditional varnishes. Their best feature is that they hold color well with little yellowing, and so would be good for panelling.

Manufacturers of water-based varnish include Benjamin Moore.

PRODUCT INFORMATION

You can go into any hardware store and find fill sticks and plastic varnish without any difficulty. Obtaining certain other filling compounds, primer-sealers, stains, or finishes can be more problematic. If the regular hardware or paint stores don't have what you want, then try a building supply store or a lumberyard. You can also approach these manufacturers directly: Behlen, McClosky, Daly's, Benjamin Moore, Delft, Minwax, and Hope's are all listed in the OHJ Catalog.

MUCH OF THIS ARTICLE was adapted from a booklet written by Jim Daly, president of Daly's Wood Finishing Products. For a free catalog detailing his full line of products, write to Jim Daly, Daly's Wood Finishing Products, 1121 N. 36th Street, Dept. OHJ, Seattle, WA 98103. (206) 633-4204.
Remote-Control Inspection

There is a way to examine closely the steep, high roof of an old house without climbing up there and risking damage to both the roofing material and yourself: Use binoculars. Just go across the street, a good distance away so you can get a good view of the roof. (An upper-storey window of a neighbor's house is ideal.) You can then easily sight roof details close-up through the binoculars.

Maxine J. Kyle
Decatur, IL

Defeating Contact Cement

After I removed the linoleum from my kitchen countertops, I discovered that there was contact cement underneath them. Every flooring store in town told me that it was impossible to remove contact cement, and that some kind of covering would have to go back on. I tried using paint remover, mineral spirits, lacquer thinner, and shellac thinner, all to no avail. But I finally came upon the answer: isopropyl alcohol, which is available at any local grocery or drug store. Just pour on a couple of coats—each coat about five minutes apart—and the contact cement will lift up.

Kris A. Layman
Cheyenne, WY

Polishing Screw Heads

Here is how I polish brass screw heads safely and rapidly. I insert them in short lengths of rubber tubing, about 3 or 4 in. long, and hold them thus secured against the buffing wheel or wire brush. (The tubing has to be of a diameter that will just accommodate the shaft of the screw.) After polishing, I place the screws, heads up, in a length of wood 1 in. x 2 in. x 3 ft. long, in which I have bored a series of holes, 1/8 in. and 1 in. in diameter and all 1 in. deep. Then I spray them with spray lacquer or clear spray. When they're dry, I tip the board over and all the screws fall out, ready for assembly in the proper place.

Mark E. Leistickow
Green Bay, WI

Cheap Alcohol

Because you are my favorite, most useful magazine, I thought I'd share a tip with you.

Denatured alcohol is used by the gallons when restoring. I use it for taking off old shellac and rinsing off paint remover. It costs about $8 per gallon, so I'm not surprised that so many old houses are left to crumble.

Many gas stations sell gasahol, a mixture of gas and denatured (or "wood") alcohol. I asked a gas station owner if I could use gasahol. When he found out that I was restoring a 10-room home full of golden oak woodwork, he understood my cost-conscious attitude. It turned out that he mixed his own gasahol, as many gas station owners do. He had plenty of denatured alcohol on hand, and sold it to me dirt cheap: I saved about $5 per gallon!

So all you home reno's, stop going to your hardware store and start going to your nearest gasahol station instead—and save a bundle. If more old homes are to be saved, let's spread the news of cheaper ways of doing it before it turns into a rich person's game instead of the average person's dream.

Karen Lang
North Judson, IN

Sculpture & Paint

We have found the ultimate source for tools to pick paint out of moldings, carvings, etc. It's a sculptor's supply house. They have literally hundreds of high-quality metal tools in every conceivable shape. We've also used some of their small files for reshaping replacement details in plaster.

Our favorite tool has been the "155 Wax Tool" (page 18 in their catalog) which we've used to scoop paint out of all the moldings on our parlor floor. The tool cost $7. The company also stocks polishing compounds and buffing wheels for refinishing marble; we've put them to good use too.

The only caution is that many of the tools are imported, which means that sometimes they are out of stock and it takes a while for replacements to arrive. It's best to visit the store and see what's available, but they also do a brisk mail-order business. You can get their catalog by sending $1 to Steve Eisenberg, Sculpture Associates, 114 East 25th Street, New York, NY 10010.

Elliott Gerber & Helene Greece
Brooklyn, NY

Got Any Tips?

Do you have any hints or short cuts that might help other old-house owners? We'll pay $15 for any short how-to items that are used in this "Restorer's Notebook" column. Send your hints to: Notebook Editor, The Old-House Journal, 69A Seventh Avenue, Brooklyn, N.Y. 11217.
Helpful Publications

The Antiques Book of Victorian Interiors
Compiled by Elisabeth Donaghy Garrett
1981 (160 pp., profusely illustrated) Cloth

American Architecture 1607-1976
Marcus Whiffen and Frederick Kooper
1981 (495 pp., generously illustrated) Cloth

American Shelter: An Illustrated Encyclopedia of the American Home
Lester Walker
1981 (320 pp., profusely illustrated) Cloth

These books are valuable additions to the resources in the vast and varied field of American architecture. The chronological survey format of each book is, however, characterized by a wholly different view of America's building heritage.

For the student of architecture, American Architecture 1607-1976 is a comprehensive scholarly examination of America's building periods and styles. The emphasis is on examples of American architecture which have a certain historical and architectural significance, and as a result, forgoes other examples of the built environment. The text is detailed and authoritative; its straightforward, building-by-building survey is an excellent basic reference source.

Marcus Whiffen examines America's buildings from 1607 to 1860 with an historical perspective, adding many comparisons of American and European architecture. Frederick Kooper studies the works of individual architects to describe the period 1860 to 1976. The book, amply illustrated with black and white photographs and line drawings, is "...likely to become one of the standard works on the subject for some years to come." (William Morgan, University of Louisville)

American Shelter is a useful resource for the architect, designer, builder, and others interested in the different major and minor styles of the American home. It centers on the importance of the free-standing single-family dwelling as shelter and as a symbol of American culture. The text briefly outlines the basics of the origin, evolution, architectural detail, and construction methods and materials of each major style and vernacular variation. The book is primarily a picture book, one which depicts the American home as a three dimensional object through the use of 1000 exploded diagrams, floor plans, and side elevations.

Lester Walker, architect, teacher, and author, portrays 110 kinds of single family homes, from conventional styles (Saltbox, Georgian, Italianate, and Shingle), to more uncommon types (Inflatable, Fantasy, Underground, and Floating). Quips architect Charles Moore, it's "...a genuine feast for the eyes and mind."

To order American Architecture, send $30.00 plus $2.25 postage to:
The MIT Press--Dept. OHJ
Massachusetts Institute of Technology
Cambridge, Massachusetts 02142
(617) 253-2884

To order American Shelter, send $22.95 plus $2.00 postage to:
The Old-House Bookshop
69A Seventh Avenue
Brooklyn, New York 11217

New Energy From Old Buildings
National Trust for Historic Preservation
1981 (208 pp., illustrated) Paper

This book, the result of a national symposium on energy conservation and its relationship to preservation, gathers together the ideas and recommendations of nationally known preservation architects and energy professionals. They suggest ways to reduce energy consumption (by combining the innate energy efficiency features of old buildings with new energy conservation systems) while retaining America's architectural heritage.

The articles include discussions of the inherent energy saving features of old buildings, the concept of embodied energy, passive and active retrofit techniques, and the legal implications of using solar devices in historic buildings. Especially helpful is the article entitled, "How to Save Energy in an Older House," which contains an exhaustive chart of conservation techniques. Also included is an energy glossary and energy information sources.

To order, send $9.95 plus $2.50 postage to:
The Preservation Bookshop
1600 H Street, N.W.--Dept. OHJ
Washington, D.C. 20006
(202) 673-4061
Scagliola

DO YOU HAVE ANY INFORMATION on a process called scagliola? I believe it is the art of hand-painting plaster to resemble marble. I would like to know how to do it, and what tools and materials will be required. Unfortunately, my library has not been very useful.

--Maureen Wilke Buffalo, NY

SCAGLIOLA is a specialty plastering method that uses colored plaster to create the appearance of marble. The color is part of the material itself in this method (as opposed to marbleizing, where the color is painted onto the surface). Scagliola is a highly-specialized finish that is rarely practiced today. It's very difficult to do, and so is not generally a do-it-yourself craft. There are plastering books that can be found in libraries and technical schools which will give you more information about this process. But we don't know of any book currently in print that describes the process in any detail.

(As you can see, we don't have a great deal of information ourselves. Can any of our readers recommend a good craftsman who still practices scagliola? How about an authoritative book on the subject?--The Editors)

Insulating The Attic

MY HOUSE IS 60+ YEARS OLD, with a well-ventilated, wooden-floored attic. Under the floor there is about 3 inches of rock wool insulation, with no vapor barrier. The attic is unheated and unused, and will remain so for at least another 15 years. I have purchased enough 6-inch, foil-backed insulation to cover the attic. My question is, where should I place it, on the floor (foil down) or in between the roof rafters?

--Glenn Stein Great Neck, NY

YOU WON'T BE HEATING THE ATTIC, so you might just as well lay the insulation down on the floor. The problem here is that you shouldn't put foil-backed insulation down over the other insulation; the vapor barrier will trap moisture in the house. See if you can exchange the foil-backed for the unfoiled kind. If you can't, then slash the foil before laying down the insulation. When you are ready to heat and use the attic, you can reuse that insulation with a new polyethylene vapor barrier facing indoors.

Rescuing Lincrusta

IS THERE ANY SAFE WAY to remove layers of paint from Lincrusta-Walton? The exquisite details of this beautifully-patterned material in my entryway are obscured by several layers of paint, including the "classic" glossy dentist-office green!

--K.E. Possler Lancaster, PA

THERE IS NO SAFE WAY THAT WE KNOW OF to completely remove paint from Lincrusta. The methylene chloride in chemical strippers will dissolve the linseed oil in the paper; and you certainly don't want to use heat on paper. But you can safely remove some of the paint by applying lacquer thinner and rubbing with 0 steel wool. (We'd still recommend trying this out on an unobtrusive test patch, however.) When you've removed enough paint to have restored some of the detail, you should refinish the Lincrusta. First put down a ground coat of oil-based paint—one which simulates the original look of the Lincrusta. Then apply a glaze over it, as the original owner would have. Glazes are available from Wolf Paints, 771 Ninth Avenue, Dept. OHJ, New York, NY 10019. (212) 245-7777.

Cracked Houses

HERE'S THE PROBLEM: My house is made of wood and has a painted brick foundation wall; there is a 2-foot crawlspace under the entire house and verandah. There are two downspouts at opposite ends of the northwest wall. For years they have emptied out onto two splash blocks. But midway between these splash blocks is a depression in which a large puddle has settled. I believe it has caused the brick foundation behind it to settle and leave a 3-inch x 8-foot space between the top of the foundation and the bottom of the wooden sill. Recently, the interior wall along the stairway has begun to show signs of stress: cracks and falling bits of plaster. What can I do about this nasty gap between the sill and the foundation?

--Kenneth Koskela Zephyrhills, FL

FIRST YOU HAVE TO WEDGE THE CRACK. (The December 1981 OHJ explains this procedure.) Then dig a hole to check the foundation. After redirecting the water flow away from the house, use telltales to see if the crack is still moving. If it has stopped, then fill in the space with drypack mortar; if it hasn't, then you'll have to have an architect go over the house.

General interest questions from subscribers will be answered in print. The Editors can't promise to reply to all questions personally—but we try. Send questions with sketches or photos to Questions Editor, The Old-House Journal, 69A Seventh Avenue, Brooklyn, NY 11217.
Why would over 8,000 OHJ subscribers buy The Master Heavy-Duty Heat Gun?

Faye Spidell of Eugene, Oregon, restores old houses in her spare time. Here's what she said in an unsolicited letter about the Master Heavy-Duty Heat Gun:

"I read each issue very carefully and have used quite a few hints from the Journal. The nicest thing, though, was being able to buy a heat gun. This last house had built-in bookcases, large windows, an archway between the living room and dining room, and the original cupboards, which had been moved to the back porch/utility room. They all look lovely now, but I tell friends that there are at least two acres of woodwork in the house. I could have never done it with a chemical paint remover. I have not been so pleased with any tool I've bought!"

Laura Lee Johnston, a homeowner from Long Island, New York, said this about the Master gun:

"Your heat gun is just what we needed to attack our heavily paint-laden newel post. It can't be removed (it is probably holding up the house!) and the thought of using chemical removers on it and coping with the mess has deterred me from getting to it since we moved in."

Patricia and Wilkie Talbert of Oakland, California, are the OHJ subscribers who first told us about the Master Heavy-Duty gun:

"We wouldn't be without it! Interestingly, the more coats of paint, the better the gun works! The heat-softern paint film tends to lift off intact out of cracks and crevices, rather than being dissolved and soaked back into the wood as often happens with liquid removers."

Faye Spidell, Laura Lee Johnston and the Talberts are no special cases. Over 8,000 OHJ subscribers have purchased the Master Heavy-Duty Heat Gun. And the raves keep coming in.

We sell this heat gun because it's the best one money can buy. It makes your job a lot easier . . . and minimizes inhalation of dangerous methylene chloride vapors, given off by most chemical removers.

The electric-powered heat gun softens paint in a uniform way so it can be scraped off with a knife. A small amount of chemical remover is suggested for clean-up and tight crevices, but the heat gun takes care of almost all the work.

In addition to minimizing chemical use, another important safety feature is a lower operating temperature than a propane torch or blowtorch. Thus the danger of vaporizing lead is eliminated, and fire danger is greatly reduced, too.

(Precautions should be taken when handling scrapings from lead-based paint and caution should be observed with wall partitions that contain dust.)

The HG-501 is an industrial-gauge tool. That means it isn't cheaply-made or cheaply-priced. But paint remover is going for $12 to $20 per gallon . . . so if you use the Master Heat Gun just a few times, it pays for itself.

When it comes to stripping paint, there are no magic wands — but we think this is the best method and best gun for the job.

$64.95 postpaid, shipping via UPS

You may order your Master heat gun by filling out the Order Form in this issue, or by sending $64.95 to The Old-House Journal, 69A Seventh Avenue, Brooklyn, NY 11217.

What it will do:
- The Master Heavy-Duty HG-501 Heat Gun is ideal for stripping paint from interior woodwork where a clear finish is going to be applied.
- Use the heat gun for stripping paint from:
  1. Doors
  2. Wainscotting
  3. Window and door frames
  4. Exterior doors
  5. Porch columns and woodwork
  6. Baseboards
  7. Shutters
  8. Panelling
- In addition, the Master heat gun can be used for such purposes as thawing frozen pipes, loosening synthetic resin linoleum pastes, and softening old putty when replacing window glass.

What it won't do:
The heat gun is not recommended for:
- Removing shellac and varnish
- Stripping paint on window mullions (the glass might crack from the heat)
- Stripping the entire exterior of a house (too slow)
- Stripping Early American milk paint (only ammonia will do that)
- Stripping exterior cornices (could ignite dust or animal nests inside)

Note these outstanding features:
- Heavy-duty industrial construction for long life
- Pistol-grip handle; 3-position fingertip switch with guard for added safety
- Rubber-backed stand keeps floors from scorching; stand swivels 90°; has keyhole for hanging and storage
- Adjustable air intake regulates temperature between 500°F & 750°F
- Rugged die-cast aluminum body — no plastics
- 8'-long 3-wire cord, grounded, with molded plug
- No asbestos used in construction
- Double-jacketed heater
- Rated at 120 v. and 15 amps
- Approved by Underwriters Laboratories

The Old-House Journal Guarantee: If your heat gun should malfunction for any reason within two months of purchase, return it to The Old-House Journal and we'll replace it.
This month—a selection of products especially appropriate for the turn-of-century house.

Help For Your Hoosier

A “Hoosier” could usually be found in turn-of-century kitchens. These handy cupboards, which often had a sugar dispenser and a flour sifter built in, are once again becoming popular. However, replacement parts are often difficult to find. One source we managed to locate was Furniture Revival & Co. Here you can find a complete selection of “Hoosier” hardware including the brackets needed to attach the top section to the lower cupboard. (They stock both the top- and side-mounted styles.) These brackets, $56.10/pair, are made of 16-18 gauge stamped steel and painted dull metallic silver. Also available are solid brass “Hoosier” door latches and hinges. And, to complete the restoration of your “Hoosier”—flour and sugar dispensers (about $63 and $56).

The company also carries many other hard-to-find hardware items including icebox and roll-top desk hardware. A catalog ($1.50) is offered. Furniture Revival & Co., PO Box 994, Dept. OHJ, Corvallis, OR 97339. (503) 754-6323.

Keeping Warm

We have received many inquiries from readers concerning old stove and heater parts, especially radiants for the Humphrey gas heater. If you are one of the many people trying to locate a source for these and other hard-to-find replacement parts we suggest you try the following two sources: (1) Empire Stove and Furnace Co., 795 Broadway, Dept. OHJ, Albany, NY 12207. (518) 449-5189 or 449-2590. (2) The Aeona Stove Co., 2nd & Arch Sts., Dept. OHJ, Philadelphia, PA 19106. (215) 627-2008.

These two companies—among the country’s largest and oldest stove distributors—have an extensive inventory of replacement parts for every kind of stove and heater. They do not offer any literature and would prefer that you call rather than write so that they can determine exactly what you need.

An inventory of 40-50 completely restored stoves can usually be found at Agape Antiques. The selection offers parlor or cooking stoves from 1830 through 1930. Wood, coal, or gas models are available with a price range of $400-$3,700, and Dave Wells, the owner, will be happy to ship anywhere.

They also stock stove replacement parts. Although their parts selection is limited to Glenwood Stoves, it’s very complete. The best way to get information is to call Mr. Wells directly. Agape Antiques, Box 43-OHJ, Saxtons River, VT 05154. (802) 869-2273.

Craftsman Wallpaper

Richard E. Thibaut, Inc. and The Historic House Association of America have collaborated to produce a line of authentic reproduction wallpapers. All 19 designs, each available in 3-5 colorways, are very reasonably priced from $14.95 to $18.95 per roll. Many of these 54-inch wide screen prints also have matching fabric.

The patterns were taken from historic homes throughout the country, mostly from 19th-century documents; however, the early 20th century is also represented. Shown here is an Arts & Crafts pattern taken from the Roycroft Campus, E. Aurora, NY (1890s). Each wallpaper in Thibaut’s Historic House collection is accompanied by a brief history of its origins—a nice historical touch for the old-house owner. A free brochure and the name of a dealer is available. Richard E. Thibaut, Inc., 315 5th Ave., Dept. OHJ, New York, NY 10016. (212) 481-0880.

Turn-Of-Century Lighting

Turn-of-century lighting can be difficult to find. Heirloom Brass offers two chandeliers which are reproductions, with slight changes to meet the electrical code, of 1924-1926 models. Both fixtures are solid brass, coated with lacquer to reduce tarnishing, and sold with a choice of 4 different glass shades.

Heirloom Brass supplies to wholesalers, but they will give you the name of a dealer in your area. Heirloom Brass, PO Box 146, Dept. OHJ, Dundas, MN 55019. (507) 645-9341.
After installing a metal ceiling, be sure to clean it with denatured alcohol or mineral spirits (a must for proper paint adhesion), and coat it with an oil-based paint or clear lacquer. A free brochure of patterns and installation instructions is available, Shanker Steel Corp., 70-32 83rd Street, Dept. OHJ, Glendale, NY 11385. (212) 326-1100.

The 20th Century Bathroom

Sterline Manufacturing Corp. has established a retail subsidiary, Barclay Products, in response to OHJ readers' interest in their wholesale products. Barclay carries a full line of bathroom accessories including high-tank toilets, shower rings, and shower curtains (standard and custom sizes). Barclay's line of solid brass faucets, manufactured by the Chicago Faucet Company, are almost exact reproductions of the patterns used by Chicago Faucet in the 1920s and 30s; minor changes were made in compliance with modern plumbing codes.

Basin cocks (sold in pairs) suggested retail—$117

Their 10 different faucet models have a non-lacquered, polished brass finish and white porcelain handles. Barclay also sells Never Dull (5 oz. for $5), an alcohol-based brass polish that is alkaline and non-abrasive.

For their free catalog contact: Barclay Products Co., PO Box 12257, Dept. OHJ, Chicago, IL 60612. (312) 243-1444.

Deck-mounted sink faucet suggested retail—$185

In addition, owner Mrs. Kirtland is willing to make replacement tiles or create a new design for you. There is a design fee of about $100 for this additional custom work, which usually requires 3 months. The cost and the time depend on the number of tiles, the difficulty of the design, and the even greater difficulty of matching colors. (If your design is one that Mrs. Kirtland would like to stock, she is willing to share the cost of the custom work.)

For a free brochure, send a self-addressed stamped envelope to: FerGene Studio, 4320 Washington St., Dept. OHJ, Gary, IN 46408. (219) 884-1119.

Embossed Tiles

FerGene Studio offers embossed tiles for your fireplace and hearth. Most of these tiles have a relief design which is copied from, or influenced by, late Victorian tiles. Plain tiles are also available for those who feel that a continuous pattern is too busy.

Reasonably priced stock patterns include the Virginia Creeper, which is designed to "grow" around the fireplace: It is comprised of running-vine tiles, corner tiles, and end-vine tiles. The cost of these and other regular relief 6 x 6 in. tiles is $10/tile. Many other sizes are available, including small hearth tiles and rectangular tiles. Prices for smaller tiles range from $3-$5.

The tiles can be glazed to match a color in your room. Another option is Cracklestone glaze, which imitates the crazing seen in antique tiles.

Overhead

The textured metal ceilings found in many turn-of-century homes are both decorative and fire retardant. Shanker Steel, who has been manufacturing tin-plated metal ceilings since 1912, is still using the original patterns and methods. Their ceilings are available in 22 different patterns, with coordinating cornices. These patterns may be purchased in 2-ft. x 8-ft. sheets, at a cost of $22.30 each.

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For a free brochure, send a self-addressed stamped envelope to: FerGene Studio, 4320 Washington St., Dept. OHJ, Gary, IN 46408. (219) 884-1119.

Fine Hardware

Horton Brasses manufactures over 500 solid brass hardware items in a variety of styles covering the period from late 1600 to about 1920. Unlike many other companies, this one offers furniture hardware for the simpler late Victorian & turn-of-century home. Included in this selection is the golden oak style drawer pull ($4.50), shown here, and cast brass knobs in the sunflower design ($3.25—$4.25). They also stock an unusual item—a moulding hook ($5). When attaching your picture hanger to the moulding, this brass-plated hook fits securely onto the moulding and is much more appropriate than a nail.

Mr. Jim Horton, the owner of this company, is willing to do custom hand-reproduction of hardware. There is an additional charge for this service, but the order will usually be completed within three to four weeks. A catalog is available for $2. Horton Brasses, Nooks Hill Rd., PO Box 95-OHJ, Cromwell, CT 06416. (203) 635-4400.
Clip-And-Mail

Order Form

Just check the boxes on the other side to conveniently get quality mail order merchandise for the old-house lover... for your home, or as terrific gifts!

1. Cut Along Dotted Line
2. Fold In End Flaps
3. Fold Along Center Line
4. Fold Over Flap & Tape Shut

Important:

1. Be sure your name, address and zip code are printed clearly or typed.

2. Check to see that you have given a STREET ADDRESS — not a P.O. Box. We deliver via United Parcel Service, and they cannot deliver to a P.O. Box.

3. Verify that your check or VISA credit card information is enclosed.

This page folds into a self-mailer envelope!

Mail this postage-paid envelope with your check for prompt service.
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□ “The Everything Package” — A terrific money-saving package which includes: Back issues from January, 1976 through present; all Indexes to those issues; the 1982 Old-House Journal Catalog; plus a subscription running through December, 1982. In all, you get 84 issues + the Catalog. All for only $59.95. (You save $55!)

□ Master Appliance HG-501 Heat Gun — $64.95
(N.Y. State residents add local sales tax)

□ “Updated Package” — Current (1982) and all back issues to date. The most comprehensive package ever! (N.Y. State residents add local sales tax)

Newest UPDATED Package!

The Old-House Bookshop

New!

The American Shelter: An Illustrated Encyclopedia of the American House chronologically charts the development of houses in America from a designer’s perspective. From the time of the settlers to projection into the homes of the future, author Lester Walker surveys and describes over 100 different house styles with more than 1,000 illustrations, including exploded diagrams, floorplans and side elevations.

The author has simplified the understanding of floor plans and structure, has also included the bases for each house design, including factors as siting, form, materials and building methodology. All produce the most pervasive man-made object on the American landscape — the single-family dwelling. Reg. retail price: $27.95

Old-House Journal price: $22.95 + $3 postage & handling

☐ 1 Year — $16
☐ 2 Years — $24
☐ 3 Years — $32

NOTE: Please allow 8 weeks for your first issue to arrive

$13.95.

CENTURY OF COLOR—Authentic paint colors for your home's exterior. Covers 1820-1920; all house styles—from plain to fancy. Ties in with available commercial colors. Softbound. $12.00

TASTEFUL INTERLUDE—Rare photographs of interior designs from the Civil War to WW II. Of great value to anyone decorating in a period style. Written by William Seale. Softbound. $14.95.

BINDERS—Brown vinyl binders embossed in gold with the OHJ logo. Holds a year of issues. $5.25 each.


1982 OHJ CATALOG—Comprehensive buyers' guide to over 9,000 hard-to-find products & services for the old house. This "Yellow Pages" for restoration & maintenance — 25% larger this year — is the most complete, up-to-date sourcebook available. Softcover. $11.95. $8.95 to current OHJ subscribers.

13

ARCHITECTURAL DETAILS OF THE LATE 19th CEN­

15

18


24

THE AMERICAN SHELTER—Over 100 illustrations chronologically chart the development of 100 single-family home styles, with exploded diagrams, floorplans and side elevations, relating styles from the 1500's to a projection for the future. A designer's delight. 320 pages. Hardcover. $24.95


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The Old-House Journal

This page forms its own postpaid envelope. Just check the boxes, and clearly print your name and address. Cut out the page and fold, as indicated on the reverse side. Enclose your check and drop it in the mail.
Your Search Is Over!

Fixing up your old house? Looking for a dazzling brass chandelier for your Queen Anne? Pulling out your hair trying to find tin ceilings for your turn-of-century home? Have you been toying with the idea of getting one of those spoke-handled porcelain faucet sets?

Don't get out your walking shoes and canteen to go searching for those elusive products or services. Make life simple for yourself. Get the one indispensable sourcebook for old-house lovers — send for a copy of The 1982 Old-House Journal Catalog.

□ Authentic paints and finishes
□ Hinges, knobs and other hardware
□ Architectural millwork
□ Furniture and furnishings
□ Columns and capitals
□ ... AND MUCH MORE!

This new edition has 176 pages of descriptive information on almost 10,000 hard-to-find items from over 1200 companies across the nation. It is the most comprehensive directory available.

The 1982 Old-House Journal Catalog helps owners restore and preserve houses that are old — but the information is up-to-date. All listings have been painstakingly screened and edited by the staff of The Old-House Journal. Included are descriptions of products & services, details on brochures, and addresses and phone numbers.

Everything is extensively cross-referenced, to make sure you don't go crazy looking for "chimney collars" when that's listed under "stove pipe and fitting."

You may have thought finding rolls of custom-designed, hand-printed 19th century wallpaper at $14 to $18 each would be impossible ... but that's just one of hundreds of exceptional finds in The 1982 Old-House Journal Catalog.

When store clerks insist "They don't make that anymore . . ." turn to the pages of The 1982 Old-House Journal Catalog.

$11.95, postpaid
$8.95, postpaid, to current subscribers
Shipping via UPS

To get The 1982 Old-House Journal Catalog delivered directly to your home, send $11.95 — $8.95 to current subscribers — to The Old-House Bookshop
69A Seventh Avenue, Brooklyn, NY 11217
... or Use The Order Form In This Issue
FREE ADS FOR SUBSCRIBER/MEMBERS

Classified ads are FREE for current members/subscribers. The ads are subject to editorial selection and space availability. They are limited to one-of-a-kind opportunities and small-lot sales. Standard commercial products are NOT eligible.

Photos of items for sale are also printed free—space permitting. Just submit a clear black & white photograph along with your ad copy.

Examples of types of ads eligible for free insertion:
1) Interesting old houses for sale;
2) Architectural salvage & old house parts for sale;
3) Restoration positions wanted and vacant;
4) Hard-to-find items that you are looking for;
5) Trades and swaps;
6) Restoration and old house services;
7) Meetings and events.

Free ads are limited to a maximum of 50 words. The only payment is your current OHJ mailing label to verify your member/subscriber status.

Deadline will be on the 5th, 2 months before the issue. For example, ads for the December issue are due by October 5th.

Write: Emporium Editor, Old-House Journal, 69A Seventh Ave., Brooklyn, NY 11217.

FOR SALE


10 RED OAK BEAMS, hand hewn, from demolished barn of Hendrikus Du Buis, c. 1790. Mostly in excellent condition. Lengths from 12 ft. to 25 ft., width 12 in. to 16 in., thickness approx. 10 in. Beams located in New Paltz, NY. For appointment to inspect, leave phone message on tape at (212) 729-8849.

WOODEN SHUTTERS with moveable flaps and pegged corners: 38 at size 15 in. x 54 in.; 4 at size 16 in. x 62 in. Excellent condition but needing cleaning. Best offer. (203) 485-1933.

ANTIQUE HARDWARE, c. 1910. Brass, other metals, glass, porcelain, ice box locks, hinges, door & cabinet knobs, hooks, draw pulls, locks, and much more. Hardware supplies for restoration needs. Odd Hardware, 76-16 Jamaica Ave., Queens, NY 11421. (212) 296-0163.

1870 STEINWAY rosewood square grand piano. Serial No. 21412, 46 in. x 89 in. x 38 in. high. $3,000. Contact: B. Saunders, 2815 Ohio St., Vermilion, OH 44089. (216) 967-9885.

3 FRENCH DOORS with 30 panes of bution glass, c. 1820. 2 ft. x 4 ft. sheets of ceiling tin: 27 in Roman cross pattern, 10 in double square pattern. Also odd lengths of flooring, beaded ceiling, and some cypress clapboard. A. Chubman, 1992 West Tuxleton, Stephenville, TX 76404. (817) 965-5945.

11 RED OAK BEAMS, hand hewn, from demolished barn of Hendrikus Du Buis, c. 1790. Mostly in excellent condition. Lengths from 12 ft. to 25 ft., width 12 in. to 16 in., thickness approx. 10 in. Beams located in New Paltz, NY. For appointment to inspect, leave phone message on tape at (212) 729-8849.

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SPECTACULAR ART DECO MURALS-8 different hand-crafted in relief in 1928, 11 ft. x 12 ft. to 11 ft. x 15 ft. in size with built-in indirect lighting. Also have 13 pine office partition doors with frosted glass, 3 swinging doors & trim. John A. Neff, 417 Pine St., Emporium, PA 17702. (717) 927-6906.

2 PAIR POCKET DOORS, reddish-color with brass keyhole fixtures: 90% in. wide x 75 ft. high x 2 in. thick. Also several other panel-type doors in varying dimensions, approx. 30 in. x 67 ft. Pocket Doors, 409 3rd Ave., Belmar, NJ 07719. (201) 681-5752; 681-1927.

MEETINGS & EVENTS

CITY LIVING—Rehab Fair, Hartford, CT. Sept. 25 & 26, 1982. Exhibitors wanted for fair for home repair, maintenance, & restoration. 200 exhibitors displaying products & services for restoration, structural repair, decorative improvements, energy conservation, as well as manufacturers, craftsmen, distributors, designers, consultants, architects. Workshops and demonstrations in practical hands-on conservation techniques, preservation methods, maintenance tips, home financing, contractor negotiations. For details contact: Sandy Harnen, 15 Lewis St., Hartford, CT 06103. (203) 247-6849.

HOUSE RESTORATION & ANTIQUE SHOW June 4, 5, & 6, 1982. Kansas City Trade Mart, Old Municipal Airport Rd., Kansas City, MO. For booth space, contact: Dolores Wagner, Wagner Promotions, Rt. 2, Box 132, Plattsburg, MO 64477. (816) 532-0194; or 539-3305.

COURSES & SEMINARS—Feb. 24, Borrowing Money For Real Estate Projects; March 10, Fundamentals Of Effective Property Management; March 27, Home Construction: Contracts To Completion. For further information, contact: University Extension, University of California, Davis, CA 95616. (216) 752-6988.

A CENTURY OF SURFACE DECORATION—1820-1920: 7th Annual Historic Preservation Conference, April 22-24, in lovely Jonesboro, Tenn. Speakers will be Glenn Larkin & Patricia Poore, Bruce Bradbury, and Malcolm Robson. Topics include interior paint colors & wallpapers; stencilling, graining, and marbling; and preparation of surfaces. Lectures & workshops. Participation is limited. For information contact: The Jonesborough Civic Trust, P.O. Box 189, Jonesboro, TN 37759. (615) 753-5281. Co-sponsored by The Jonesborough Civic Trust, Appalachian Regional Bureau of Government, Appalachian State University, and The Old-House Journal.

INS & HISTORIC HOUSES

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REAL ESTATE

LOVELY BUILDING LOT (50 x 125) in staid residential section of Attleboro, MA. Build your own year round or vacation home here near the Cape. $2500 cash or trade. K. A. Coomer, 1311 15th Street N.W., Washington, DC 20009. (202) 667-0819.

PARKE CO., IN—Impressive 1883 2-story brick home on 1½ acres, near Turkey Run State Park. Italian Villa style architecture. Authentic restoration 90% complete. 10 rooms, 1½ baths, pantry, large rooms, 5 fireplaces. Central heat, well insulated. $156,000. Contact Felker Realty, Rockville, IN 47872. (317) 569-3186.

SOUTHWESTERN MICHIGAN: c. 1680 brick Italianate farmhouse, 10 spacious rooms, beautiful walnut staircase to second floor and attic, original painted-grain woodwork, full cellar with stone floor, 2 acres with old oaks. Easy drive to South Bend, St. Joe, Benton Harbor, Kalamazoo. Needs complete, loving restoration. $20,000. Call (713) 696-7041.
FEDERAL BRICK HOME with limestone porch and other detailing. 30 mi. south of Indianapolis on large, wooded corner lot in Franklin, IN. Restored, 8 rooms ready for occupancy. Nominated for National Register. $72,000. Realtor Kenn Chesser, (317) 736-3085.

ATHENS, NY—Elegant 6-room 1878 Federalist home in historic district offers large living room and dining room, full attic and basement, new roof and furnace, private parking, and several owner financed options. Asking $35,500. Land Resources, 28 Second St., Athens, NY 12015. (518) 945-1363.


NEWARK, DE—2-storey flame house on National Register for relocation & restoration by the Delaware Dept. of Transportation. Local interests preferred. Must be removed from site no later than May, 1982. For information, contact: Nick Blengy, Project Planning, PO Box 778, Dover, DE 19901. (302) 736-3085.

THE CRAFTSMAN is a skilled mechanic who will help you recreate or restore the warmth and atmosphere of your home, stripping and refinishing woodwork. My skill and professionalism are guaranteed to please. Call: (212) 665-3343.

ST. LOUIS, MO—Fine furniture & architectural stripping & refinishing done. Also restoration, repair, carving, caning. All hand work done by craftsmen with over 25 years experience. Please call by our shop. Artistic Finishes, 4173 Junista St., (314) 773-1706.


WANTED

PAIR OF ARCHED DOORS with central height 130 inches & base 77 inches when closed. Arch has radius of 38 inches. Contact: P. Costas, 5225 Sycamore Ave., Riverdale, IL 60471. (712) 884-7114.


HEARTLANDS PRESERVATION SERVICES for houses, commercial buildings, etc.: Inspections for significance and condition of architectural, plumbing, electrical/mechanical systems; code compliance; adaptive feasibility studies; research, National Register and tax certifications; measured drawings; maintenance programs and specifications for paints, colors, exterior finishes. Conservation, Box 89, Evanston, IL 60204. (312) 491-0882.

ARTIQUE HOUSE CONSULTANTS who have worked on National Register properties and historic house museums now offer their technical expertise to the private homeowner. Our services include: restoration planning, research & documentation, paint analysis, selection of appropriate wallpapers & moldings, help in finding craftsmen & architects. Brochure available. Contact: Antique House Consignment, 243 Dalmany Rd., Briarcliff Manor, NY 10516. (914) 763-4858.

ORNAMENTAL PLASTER RESTORATION. High quality restoration, reproduction, new work in plaster cornices, mold wall panels. Historical restorations in original materials, first period Colonial to late Victorian. Custom casting of medallions & other architectural pieces. Russell Hiest, 111 South Union St., Wilmington, DE 19805. (302) 654-1727.

OLD-HOUSE RESTORATION, repairs, replacements, renovations, removals. We knock or will find & install antique or reproduction materials. Historical research & site inspections. Brochure available. The History Store, Inc., Union St., Wilmington, DE 19805. (302) 654-1727.


WOOD INTERIORS—Preservation and adaptation. Artist/craftsman with portable power tools for on-site work, including floors, windows, and doors. Hobi Burgdorff, (201) 356-5200 or owner (617) 359-6539, p.m.

If your issue of The Old-House Journal arrives dog-eared or damaged, let us know: We’ll send out a replacement right away.

OHIJ Assistant Editor Writes A Book

Journal readers interested in serious contemporary music may want a copy of a new book co-written by our assistant editor, Cole Gagne. It’s a book of interviews and photographs of 24 American composers, including Aaron Copland, Lukas Foss, and Philip Glass. Soundpieces: Interviews With American Composers, by Cole Gagne and Tracy Carsa. (quality hardbound, $24 plus shipping and handling. Write: Scarcecrow Press, PO Box 656, Metuchen, NJ 08840.)
William Seale's expertly-analyzed and interpreted collection transverses 57 years of evolving American interiors, during the Civil War to World War I period. His well-chosen photographs present objects as documents, and interiors as essays in history.

Originally published in 1975, Tasteful Interlude has been out-of-print for 4 years. Now — actually back "by popular demand" — the second edition is available, with additional photos and commentary. You can now explore the book's gamut of residential fashions, from moneyed Manhattan drawing rooms to a seedy shanty in Colorado's silver mining country.

This broad range, from ostentatious opulence to stark simplicity, provides an excellent brainstorming guide to the decorative styles of the times. Anyone enamored with American decorative traditions will delight in this unique photographic expedition into Victorian and turn-of-century life and culture.

288 pages, 269 original period photographs. Softbound.

Use the Order Form in this issue, or send $12.95 + $2 postage & handling to The Old-House Bookshop 69A Seventh Avenue, Brooklyn, NY 11217

Planning a meeting?

If your preservation or neighborhood organization is planning a meeting or workshop soon, you might want to spread the word about The Old-House Journal. If you're a subscriber, you already know the practical value of the OHJ — why not let your neighbors in on it!

Free copies of sample issues are now available to organizations such as yours. To get these free copies (up to 100), just drop a letter in the mail on your stationery telling us about your event. Mail the letter to Sally Goodman at The OHJ.
The Shapes And Character Of America's Homes . . . From A 3-D Perspective

charts the What, Where, When, Why and How of our architectural landscape.

Over 100 single-family house styles that have surfaced in America are examined from a humanistic perspective, relating the architectural forms to people's need for shelter.

Among the traditional house styles surveyed in this 5-year product of architect/author Lester Walker's work are:

* Dutch Colonial
* Saltbox
* Cape Cod
* Greek Revival
* Steamboat Gothic
* Italianate
* Octagon
* Second Empire
* Eastlake
* Romanesque
* Mission
* . . . & many others

American Shelter is unhampered by arbitrary editorial "bookends" — such as cutoff dates, materials used, geographic region, or style categories, as most books on houses are. It draws on diversity, from the prosaic to the peculiar.

Complex information critical to understanding, such as structure and floor plan growth, has been simplified. Sketches of house geometry, and how architects see spatial relationships, as well as close-ups of building elements round out this 3-D perspective.

Many books, including this one, can function as a field guide, but American Shelter is more a dimensional study of the formation and character of single-family homes. American Shelter is an outstanding book for anyone interested in how and why houses look the way they do, and is invaluable to architects, builders and contractors.

320 pages, 8½ x 11, hardcover
Reg. retail price: $27.95
Special OHJ Subscriber Price: $22.95, + $2 postage & handling

SAVE $5! Offer Good Only Until Feb. 28!

From pueblos and English Cottages, to High Victorian Gothic and Georgian Revival, to Post Modern and geodesic domes, the shape and development of homes from the settlers' time to today are presented in the new American Shelter.

With over 1000 illustrations, including exploded views, floor plans, and side elevations, this book avoids scholarly analysis to see single-family homes from a designer's perspective. American Shelter shows how building elements combine to form style, with such factors as siting, form, materials and the construction technology of the period included.

This "Illustrated Encyclopedia of the American Home" chronologically
THE CAPTION for this photo could be, "The siding contractor strikes again!" The makers of vinyl and aluminum siding keep insisting that their products can be applied to old buildings in a sensitive fashion. Maybe they've never bothered to point that out to the contractors who slap the stuff on buildings. Because based on the photo evidence we've seen, a sensitive job is the rare exception.

THIS SIDING contractor committed the following: (1) Removed the ornamental caps over the two central windows; (2) Covered over the corner quoins; (3) Used a "clapboard" twice the width of the original—completing his trashing of the building's exterior.

THE POOR OLD HOUSE now has a badly split personality. Anyone know a good house psychiatrist?

Submitted by: (Name Withheld)
Portland, Maine

TAKE YOUR CAMERA ALONG... . . . the next time you are strolling through an old neighborhood. Be on the lookout for harmful or thoughtless things that have been done to old buildings. We're looking for object lessons... photos that will help others avoid the same mistakes.

IF YOU SPOT some classic remuddling, snap away. We'll award $50 if your photos are selected as the monthly winner. The message is more dramatic if you also send along a photo of a similar unremuddled building.

SEND YOUR ENTRIES to: Remuddling Editor, The Old-House Journal, 69A 7th Ave., Brooklyn, N.Y. 11217.