BUILDING TYPES STUDY:

RECORD HOUSES OF 1979
PLUS APARTMENTS OF THE YEAR

TWENTY EXCEPTIONAL HOUSES AND SIX MULTI-FAMILY PROJECTS
SELECTED FOR THE 1979 AWARDS OF EXCELLENCE FOR DESIGN

ARCHITECTURAL RECORD

MID-MAY 1979  A McGRAW-HILL PUBLICATION  $5.95 PER COPY
THE BEAUTY OF NO-WAX FLOORS WITH THE BONUS OF BUILT-IN SAVINGS

No-wax Premier Sundial™ Solarian® gives your customers the beauty of built-in shine. One that stays shiny without waxing far longer than ordinary vinyl-surfaced no-wax floors, thanks to Armstrong's exclusive Mirabond® wear surface.

But for you, the beauty of this cushioned no-wax flooring is in its built-in savings. On subfloor prep. On installation. On callbacks.

SAVE ON CALLBACKS.
With Premier Sundial Solarian, there's no cracking or ridging when installed properly. Its unique built-in elasticity allows it to contract in winter and expand in summer.

Actually moving as the subfloor moves, so naturally, you save on callbacks.

SAVE ON SUBFLOORS.
Because Premier Sundial Solarian is so flexible, you can use the same NPA-approved particleboard subfloor in your laundry rooms and kitchens as you use in the rest of the house. That means you don't have to use different kinds of subfloors and extra underlayment. Which means you save.

SAVE ON INSTALLATION.
Premier Sundial Solarian installs faster than most other conventional resilient floors. That means production efficiencies for your flooring contractor. The floor roughs in faster around a room. And it's as easy as carpet to trim to size. But the real time-saver is perimeter bonding. The contractor just staples around the edges. Over concrete subfloors, under toe kicks, or in other places where a staple gun won't fit, he uses a single band of trowelable adhesive.

REPAIRS EASILY.
Damaged areas can be easily cut out and pattern-matched replacements made. A special seam-sealing cement lets the patch become a permanent part of the overall floor. There's no need to cover or replace the entire floor.

THE FLOOR THAT ALMOST PAYS FOR ITSELF.
Order Premier Sundial Solarian from your Armstrong flooring contractor today. By spending a little more for a cushioned no-wax floor, you can stop spending a lot more for callbacks, subfloors, and installation.

A Premier Sundial Solarian patch becomes a permanent part of the overall floor.

Circle 1 on inquiry card
THE RECORD REPORTS

49 Preface
by Barclay F. Gordon

ARCHITECTURAL BUSINESS

2 Photographers of Record Houses

2 Entry procedure for Record Houses 1980

ARCHITECTURAL ENGINEERING

128 New products for the house

131 New literature for house planning

168 Index to advertising

171 Record Houses Reader Service Inquiry card

BUILDING TYPES STUDY 531
RECORD HOUSES OF 1979

50 Shapleigh house, Massachusetts coast
   Architect: Graham Gund

54 Franzen house, Bridgewater, New York
   Architect: Ulrich Franzen

58 Slack house, Omaha, Nebraska
   Architect: John Slack

60 Lindstrom house, Bainbridge Island, Wash.
   Architects: Morgan and Lindstrom

64 Behn house, Berkeley, California
   Architect: Peter Behn

68 Private house, Wayzata, Minnesota
   Architect: Hugh Newell Jacobsen

72 Flintoft house, Nantucket Island
   Architects: Bissell & Wells

74 Najarian house, Long Beach Island, N. J.
   Architect: Christopher H. L. Owen

76 Dickson house, New Vernon, New Jersey
   Architects: Crissman & Solomon

80 Williams house, Seattle, Washington
   Architect: Gerald A. Williams

82 Cottage renovation, Quoque, Long Island
   Architect: Hubert Betts

84 Isham house, Sagaponack, New York
   Architects: Moore Grover Harper

86 Private house, Big Sur, California
   Architects: Marcel Breuer Associates

88 Haupt house, Amagansett, New York
   Architects: Gwathmey-Siegel

92 Private house, Westchester, New York
   Architects: Keith Krouger Associates

96 Candy Factory Court, Philadelphia, Pa.
   Architects: Baker Rothschild Horn Blyth

100 Conger house, Guilford, Connecticut
   Designers: Leela Design

104 Private house, Southern Arizona
   Architect: Judith Chafee

108 Private house, Westford, Massachusetts
   Architects: Masdesign, Inc.

110 Osmon house, Carefree, Arizona
   Architect: Fred Linn Osmon

FEATURES:
APARTMENTS OF THE YEAR

114 Bellefield Park, Bellevue, Washington
   Architects: Mithun Associates

116 Heaton Court Housing, Stockbridge, Mass.
   Architects: Goody, Clancy

118 Highland Park Apartments,
   Highland Park, III.
   Architects: Booth Nagle & Hartry

120 Hudson on Memorial, Houston, Texas
   Architects: Kaplan/McLaughlin/Diaz

122 Sea Gardens, Atlantic Beach, Florida
   Architect: William Morgan,

124 Village at Loon Mountain,
   Lincoln, N. H.
   Architects: Huygens and Tappé

Of particular assistance to the editor in the preparation of this issue were:
Barclay F. Gordon, editor-in-charge
Grace Anderson, associate editor
Charles K. Hoyt, associate editor
William Marin, associate editor
Janet Nain, associate editor
Annette K. Netburn, production editor
Cynthia Miele, Donna Protas, Drupliste Persaud,
assistants to the editors

Jan White, art direction
Muriel Guttrell, illustration
Anna-Maria Egger, art production
PHOTOGRAPHERS OF RECORD HOUSES OF 1979

Glen Allison Photography, P.O. Box 1833, Santa Monica, California 90406 (104)
Otto Baltz, P.O. Box Q, Cliffwood, New Jersey 07721 (122)
Michael Burns, 627 First Avenue, Seattle, Washington 98104 (80)
Tom Crane, Darby & Marple Road, Haverford, Pennsylvania 19041 (96)
©David Fransen/ESTO, Todd Road, Katonah, New York 10536 (84, 72, 92)
Joshua Freilkind, 3627-21st Street, San Francisco, California 94114 (86, 110, 120)
Art Hupy, 2036 N.E. 98 Street, Seattle, Washington 98115 (114)
Clemens Kalischer, Main Street, Cambriade, Massachusetts 01262 (116)
Laurie LaFayette Photography, 4906 41st Street, Washington, D.C. 20016 (68)
William Marks, 8 West 95th Street, New York, New York 10025 (82)
Norman McGrath, 164 West 79th Street, New York, New York 10024 (74, 84, 88)
Steven Pereoz, 519 West 22nd Street, Sioux Falls, South Dakota 57105 (58)
Robert Perron, 104 East 40th Street, New York, New York 10016 (100)
©Steve Rosenthal, 59 Maple Street, Aubumdale, Massachusetts 02166 (50, 76, 108, 124)
Christian Staub, 2020 East Newton, Seattle, Washington 98122 (60)
Douglas Sykes, 417 Mississippi Street, San Francisco, California 94107 (64)
Phillip Turner, 4800 Chicago Beach Drive, Chicago, Illinois 60615 (118)

ENTRY PROCEDURE: Any architect registered in the United States is invited to submit material for consideration in RECORD HOUSES AND APARTMENTS OF 1980. Include the following items: 6 to 10 clear, informal photographs fully describing the architectural intent, both on the exterior and the interior (35 mm. slides must be in 8½ x 11 in. sleeves); relevant plans and sections (not working drawings); and a descriptive sheet including the architect's name and location of building. If the house has been professionally photographed the photographer's name and current address should also be included. Do not send material which must be returned before the issue appears. Deadline: October 15, 1979.

ARCHITECTURAL RECORD (Combined with AMERICAN ARCHITECT, ARCHITECTURE AND WESTERN ARCHITECT AND ENGINEER) (USPS 122-690)
Mid-May 1979, Vol. 165, No. 6. Title® reg. in U.S. Patent Office. Copyright 1979 by McGraw-Hill, Inc. All rights reserved. Copyright not claimed on front cover and editorial. Page and four-color separations. Indexed in Reader's Guide to Periodical Literature, Art Index, Applied Science and Technology Index, Engineering Index, and the Architectural Index. Quotations on reprints of articles available. Every possible effort will be made to return material submitted for possible publication (if accompanied by stamped, addressed envelopes), but the editors and the corporation will not be responsible for loss or damage.
EXECUTIVE, EDITORIAL, CIRCULATION, AND ADVERTISING OFFICE: 1221 Avenue of the Americas, New York, New York, 10020.
OFFICES OF MCGRAW-HILL PUBLICATIONS COMPANY: president, Gordon L. Jones, group vice president; Gene W. Shipston, James E. Bostoff; senior vice president; Russell F. Ausmen; Ralph R. Schulte, editor; vice president; James E. Hackett, controllers; Thomas H. King, manufacturing; Robert L. Loughlin, circulation; John C. Peters, sales; Edward L. Schenker, international.
CORPORATION OFFICERS: Harold W. McGraw, president, chief executive officer and chairman of the board; Robert N. Lander, senior vice president. Treasurer Ralph J. Webb, treasurer.

SUBSCRIPTIONS: Subscriptions solicited only from architects and engineers, professional, firm connections, and type of firm must be indicated on subscription orders. Please allow 4-12 weeks for shipment. Subscription rates for U.S., Possessions: $24.00 for architects, engineers and others in the field served; all others $21.00. In Canada: $22.00 for architects, engineers and others in the field served; all others $21.00. In all other countries: 40.00 for architects and engineers; all others $48.00. Single copy price $5.00, except the mid-May issue which is $5.50.
GUARANTY: Publisher agrees to refund part of subscription price applying to unfulfilled part of subscription if service is unsatisfactory.
CHANGE OF ADDRESS: Forward changes of address or service statements to Fulfillment Manager, Group A, ARCHITECTURAL RECORD, P.O. Box 430, Hightstown, N.J. 08520. Provide both old and new address, including zip code, if possible attach issue address label.
POSTMASTER: PLEASE SEND FORM 3597 to Fulfillment Manager, ARCHITECTURAL RECORD, P.O. Box 430, Hightstown, N.J. 08520.
THIS ISSUE is published in national and separate editions. Additional pages of separate editions numbered or allowed for as follows: Western Section 37-37 through 37-36.
'Til now, there wasn't a siding in the world that looked at home on so many kinds of houses. 'Til Cedar Ridge.

The new hardboard siding that gives you the best of genuine cedar. All the warmth, all the real wood character it takes to make people feel at home. In any house.

Cedar Ridge.

Boise Cascade Timber and Wood Products Group

For the name of your nearest Cedar Ridge supplier, call, toll-free, 1-800-328-5616 (except Minn.); In Minn., call 612-542-1600.
BUILT TO OFFER
THE LOWEST
COST/ BTU/ FT²
INSTALLED.

Continuous, integrated mounting flange makes installation easy. Unique keyway with U-clip inserts provides high degree of mounting adaptability, minimizes support structure and lost space between collectors.

Patentedaret around frame permits easy snap-in of flashing without removing cover glass.

Swiped and tempered low-iron cover glass resists breakage and provides high transmissivity. Cover glass can be removed after installation without removing collector. Weep holes allow condensate to drain.

Internal manifolds reduce installation costs by minimizing field labor, connection hardware, external piping, and pipe insulation. They also permit more efficient use of available collector mounting area.

Extruded frame permits secure anchoring at several points, minimizing need for added reinforcement against wind.

High efficiency, black chrome coated copper absorber plate is thermally isolated from collector frame. The black chrome coating provides reliability and durability under stagnation temperatures, and maximum absorptivity and minimum emissivity.

Continuous, integrated mounting flange.

The real price of a solar collector is the installed cost for the thermal energy it delivers. Repeat: installed cost.

When Sunworks translated solar energy into practical equipment, we designed and built for cost-efficiency. And today, after five years of field experience and independent testing, we strongly believe our Selectic® solar energy collector delivers the industry's lowest cost/ BTU/ ft² installed.

Performance to match your specs
The Sunworks collector easily satisfies the most rigid performance specifications. In addition to the design features described above, the Selectic provides a high net-to-gross ratio. More than 88% of the collector array is working absorber area.

The Sunworks record
Sunworks has supplied solar equipment for domestic water heating, space heating and air conditioning of schools, offices, hospitals, industrial plants, and single and multi-family housing. In square footage, Sunworks is the leading supplier of solar collectors to HUD and DOE demonstration projects.

Ask the Sunworks rep
Your local Sunworks rep will provide all you need for an informed decision on solar equipment. He's an HVAC professional, trained by Sunworks in solar technology. He's your link to a wide range of services including computer simulations of collector performance, shadow analysis, system sizing, and analysis of return on investment.

For more information, write Sunworks, P.O. Box 1004, New Haven, CT 06508. Or call Sweet's Buyleine for the name of the nearest Sunworks rep: (800) 447-1980. In Illinois (800) 322-4410.

Sunworks is a division of Entone, Inc., a subsidiary of ASARCO Incorporated, a Fortune 500 company.

sunworks

Circle 4 on inquiry card
Elkay stainless steel sinks: timeless beauty to enhance any kitchen, any decor.

More people decide to buy — or are easily "sold on" — Elkay stainless steel sinks than any other brand.

And no wonder! Because nothing can top the timeless beauty of stainless steel for complementing any kitchen layout, any decor. Today or years from now.

And no one can top Elkay's selection of models, combinations and prices, to suit any customer's needs precisely.

What's more, no other stainless steel sink can top Elkay quality ... in the bright rich-looking satin finish that actually improves with age... or in corrosion-resistance, sturdiness—and "minor points" like rims that stay flat after installation.

To top it off, you can profit with a three-way "kitchen package" by Elkay: selling Elkay faucets and food waste disposers with America's best-selling stainless steel sinks.

Why settle for less—or less profit? Make the most of Elkay quality—and popularity. Write for free literature, or contact your Elkay representative.

Elkay Manufacturing Company, 2222 Camden Court, Oak Brook, Illinois 60521, Dept. 9-21

Circle 5 on inquiry card
The more you insulate, the more you need Andersen.

Almost everyone agrees on how important insulation is to saving energy. But what about quality windows? How important are they?

Andersen® Perma-Shield® windows, for instance, can help insulate where heat loss might otherwise be the greatest—in the window area itself.

In a one-story house they may save nearly as much energy as 6 inches of additional ceiling insulation.¹

That’s because of Andersen’s low air infiltration.

The windows’ snug-fitting design is two times more weathertight than industry air-infiltration standards. The better to keep out drafts, and keep in comfort.

If you also include Andersen’s use of double-pane insulating glass in place of old-fashioned, single-pane glass the energy savings really jump. To more than the equivalent of an additional 12 inches of ceiling insulation.

Add triple glazing, and the energy savings pile up still higher.

And when properly sized, shaded and oriented toward the sun, Andersen windows help save more energy. In winter they welcome the warming sun. And in summer they open to gentle cooling breezes.

All of which may allow you to bring more and larger windows into your design without increasing its energy cost.

So specify as much insulation as you need, but insist on quality windows, too. Beautiful Andersen Perma-Shield windows with double-pane insulating glass. Or with triple glazing wherever maximum energy efficiency is desired.

See Sweet’s file 8.16/An. Or ask your Andersen distributor to show you the many ways to insulate with a view. Andersen Corporation, Bayport, MN 55008.

¹Compared to windows which just meet industry air-infiltration standards in a one-story house in Denver, Colorado with 12% window-to-floor space ratio, 250 linear ft. of crack and 6 inches of fiberglass ceiling insulation (R-38).

The beautiful way to save fuel

Andersen Windowwalls®

Circle 6 on inquiry card
Fixtures should hold more than water.
That's why Kohler's are cast in iron.

Kohler cast iron plumbing fixtures cost a bit more than steel or plastic. But you know what you're getting for that extra money? You're getting extra quality.

THEY HOLD THEIR LOOKS.
Kohler enamel is exceptionally durable. It's five times thicker than the enamel on a steel fixture. So it resists acids, stains, chips and scratches.

THEY HOLD THEIR STRENGTH.
Cast iron, says it all. Solid. Unflexing. And five times thicker than steel.

Once installed, cast iron baths won't pull away from walls or flooring. And cast iron sinks cut down disposal noise and vibration. Most sinks and lavatories are self-rimming for heater installations.

Choose from a variety of tubs, whirlpool baths, sinks and lavatories in as many as 16 colors. Kohler also manufactures a full line of toilets and a wide selection of faucets in chrome or 24-carat gold finish.

For more information, write DEPT. TP, KOHLER CO., KOHLER, WIS. 53944.

Kohler cast iron plumbing fixtures. They hold so much more than water. The BOLD LOOK OF KOHLER

Circle 7 on inquiry card
"REZ® Wood Stains gave us the best color selection and cost effectiveness"

Douglas C. Goodman,
Reinhardt Associates, Inc.

Because various grades of lumber were used in the MacArthur Terrace Project, the exterior finish had to meet two very important criteria. First, a variety of colors were needed to make the overall apartment complex aesthetically pleasing. At the same time, the finish had to be economical in terms of both initial application and long-term maintenance.

"REZ Wood Stains gave us the best selection of colors," says Douglas C. Goodman of Reinhardt Associates. He adds, "And since we have specified REZ Wood Stains for many years, we were certain that they would give us the quality and durability needed for cost effectiveness on this project."

If your next project or development calls for stain—consider the many advantages of REZ Wood Stains. 145 "now" colors to choose from, solid color or semi-transparent effects, for both exteriors or interiors. A big plus —quality and durability that have been proven for more than 30 years.

See Sweets File 9.9 / Ppg or write for 8-page brochure by mailing the coupon.

PPG: a Concern for the Future

PPG INDUSTRIES, Inc., One Gateway Center—3W, Pittsburgh, PA 15222

☐ Please send 8-page brochure regarding REZ Wood Stains.
☐ Please have representative call.

Name

Title

Company

City State Zip

AR—5

In Canada: PPG INDUSTRIES CANADA LTD.
Coatings and Resins Division
299 Carlingview Drive
Rexdale, Ont. M9W 5G3
(416) 675-2533

Circle 8 on inquiry card
Designed for today...to make any window a showcase. You can go casual or elegant. Kirsch Woven Woods turn window walls and sliding doors into a tapestry of color and texture. Full-length vertical draperies shown here use Archifold® for a soft, tailored look.
Easy to clean... easy to install... easy on the fuel bills.

Kirsch Woven Woods are custom-cut for perfect fit... clean quickly with a vacuum... help insulate windows... and feature Teflon-S® pulleys for smooth, dependable action.

Our newest collection. It's the new Grand Canyon® collection by Kirsch. Colors range from prairie-sky blue to baked-clay red, with the rich, glowing warmth of natural wood slats.

One of the most versatile decorating ideas in years...

Kirsch Woven Woods

In any room... for any decor. There are Kirsch Woven Woods for any type and size of window... with a choice of over 60 patterns available in a wide variety of colors, yarns and weaves. Kirsch Woven Woods and custom heading systems are also ideal for commercial window treatments.

You can put a Kenmore in just 18 inches.

The Space Saver.
The service-for-eight dishwasher that fits in six inches less.

The Space Saver has been designed to help you take advantage of today's space conscious homes. It gives great performance—in up to 25% less room than conventional models!

The Space Saver features sound insulation, forced air drying, soft food disposer, our energy conserving Power Miser and a prospect pleasing choice of colors.

And you can select either our deluxe model with six cycles including pots and pans, or our standard four cycle unit.

Kenmore. Our name helps you sell.

Kenmore appliances are the ones your customers know and trust. Kenmore quality, Sears service, value and dependability. Why not let the Kenmore Space Saver help you make the most out of the least space?

Kenmore. Solid as Sears

©Sears, Roebuck and Co. 1979
Contract Sales

Circle 10 on inquiry card
New from the Raynor Forest...
steel that looks like wood!

Timberline is Raynor's new sectional garage door that combines the beauty of wood with the strength, security and durability of steel. And because it's made of steel, Timberline won't rot, warp or shrink, ever. Plus, it's deep-ribbed design takes on an attractive wood-plank appearance.

Timberline features a rich wood-grain, baked-on enamel finish offered in both one and two-car sizes. Insulation and other weather-protection materials are also available for colder climates.

Next time you're selecting a garage door, be sure to ask for the Raynor Timberline. The one door that offers the best of two worlds.

Redwood comes in a much wider variety of grades, shades, textures and types than most people think.

Redwood, as the work shown here clearly demonstrates, is not only beautiful, it's versatile. Redwood can be warm and rich. It can be bright and colorful. Redwood can be smooth and handsome. It can be rough and striking. Redwood has almost infinite possibilities.

And redwood adds enduring value to whatever you design or build. No other wood weathers like redwood. No other wood is as resistant to warping, checking, and age. No other wood takes and holds a finish better, or needs a finish less. Redwood insulates against heat, cold and noise. Redwood resists flame spread.

Redwood. There is, literally, no other wood like it.

Credits:
Clear grade residential ceiling
Architect: Norman Jaffee, AIA
Interior: Maurice Weir, FASID

Clear All Heart siding, multi-unit
Architects: Fisher-Friedman Associates, AIA

Knot and sap textured siding, multi-unit
Architect: Kermit Dorius, FAIA
Architects and Associates

Finger joint interior accent wall
Architect: Richard E. Huston
Architect, Incorporated

Garden grades deck
Designer: Elsebet Jegstrup

CALIFORNIA REDWOOD ASSOCIATION
One Lombard Street
San Francisco, California 94111
Redwood—A renewable resource

Circle 12 on inquiry card
There's nothing like the rich natural light of the sun to make colors and textures come alive. And, with Naturalite® Kooldome skylights you can give rooms sunlight eight full hours every day—at no extra cost for energy!

What's more, Naturalite skylights admit up to five times more light than similar size windows. Even interior rooms such as dens, baths, and kitchens can be made brighter, cheerier, more beautiful than ever.

Naturalite skylights are quality-built—easy to install...won't affect heating and lighting costs. Make every home more beautiful, more functional, more valuable.

For the name and address of your nearby Naturalite distributor, write: Naturalite, Inc., P.O. Box 28636, Dallas, TX. 75228. Phone: (214) 278-1354.

NATURALITE INC.
SPECIFY MARKEL CUSTOM SILL CONVECTORS.

THE ADVANTAGES LEAVE YOU NO OTHER CHOICE.

Design. Only Markel gives you custom-length, monolithic enclosures up to ten feet. Inconspicuous seams permit infinite, wall-to-wall and around-corner lengths. Five architecturally matching configurations in two sizes accent or blend with any design. Custom color matching; or choose from a multiplicity of vinyl-coated, textured and stainless steel finishes. Custom design without custom cost!

Installation. The easy-to-install mounting rail supports all components. Enclosures field cut without refinishing...no delays! Installation is one of the most labor-efficient in the business.

Energy-efficiency. Markel's exclusive custom heater units put heat only where heat is needed along enclosure...i.e., only under windows for efficient draft barriers. Heaters are available in single or three-phase and in six lengths to match your needs. Heating sections are independent of the covers.

Cost. Markel is the only manufacturer using steel element fins (see photo). While cost is comparable to aluminum, steel's heat-holding performance and damage-resistance is far superior.

Specify Markel Custom Sill Convecators. There really is no other choice.

For more reasons why you should be specifying Markel 4600 Series Custom Sills, check Sweet's MPC, or write for more information.

Markel
NuTone Division Scovill
Dept. AR-5, P.O. Box 1580
Cincinnati, Ohio 45201
Phone 513-2551
To create a crisp, bright interior that accentuates some views and eliminates others, the architect designed a collage of shapes with low-maintenance Pella Clad windows.

Only a Pella package offers a combination of commercial features that always feel right at home.

Whether a building’s function is commercial or residential, windows are a critical factor in how well it works in its environment. Here, Pella windows are the pivotal design element in a home that enhances its site.

To take full advantage of natural light and pleasant views, while preventing visual intrusion of nearby streets and houses, the design makes use of an entire repertoire of Pella sizes, shapes and styles — casements, awnings, contemporary double-hungs, fixed rectangles and trapezoids, not to mention two sets of sliding glass doors.

Dark brown aluminum cladding withstands the elements beautifully. And because there’s no need for interruptive eaves or overhangs, the lines of the natural wood exterior are crisp and dynamic.

Inside, uncluttered wood frames are painted white to play up bright patterns and shapes created by window placement. Wood construction, important in conserving energy, also controls condensation that often results from high humidity caused by an abundance of indoor plants.

While the exterior, with its uniquely oriented panels and ribbons of glass, makes a dramatic statement to the surrounding neighborhood, the interior gives an impression of sunny seclusion far from a metropolitan area.

All in all, only a Pella package can offer so much aesthetic appeal and functional flexibility to help make a house, or a commercial building, at home in a particular setting.

Pella’s outside glass is easy to clean from inside. A unique case-ment hinging system moves the sash toward the center of the frame to provide plenty of elbow-room.

Precision wood construction makes Pella windows truly energy-tight. The optional Double Glass Insulation System has a 13/16” air space between panes for maximum performance.

Pella’s tough exterior aluminum cladding is cleaned and etched, then coated with a baked-on acrylic polymer in dark brown or white. It won’t chip, crack or peel. No painting needed.

Pella’s Clad system includes rectangular or trapezoidal frames which will accept a variety of glazing options, louvres or matching clad panels for extensive design flexibility.

For more detailed information, use this coupon to send for your free copy of our 28-page, full color catalog on Pella Clad Windows & Sliding Glass Doors. Call Sweet’s BUYLINE number or see us in Sweet’s General Building File. Or look in the Yellow Pages under “windows”, for the phone number of your Pella Distributor.

Name

Firm

Address

City    State    Zip

Telephone

Mail to: Pella Windows & Doors, Dept. T3018, 100 Main St., Pella, Iowa 50219.
Also available throughout Canada. This coupon answered within 24 hours.

© 1979 Rolseecen Co.

Only Pella offers it all.
For Interior Elegance and Durability
Whitacre-Greer Thin Pavers in Warm Earth Tones

Whitacre-Greer Thin Pavers bring beauty and durability to lobbies, foyers, game rooms and other interiors. Just 5/8" thick, they are available in a wide range of distinctive earth tones.

Whitacre-Greer Architectural Pavers are products of one of the country's richest clay areas—east central Ohio. The character and wide appeal of this unique range of earth tones is due to these rich Ohio deposits, processed with a variety of additives, under rigidly controlled firing conditions.

For the name of your nearest Whitacre-Greer representative, call SWEETS BUYLINE. Or, write or call collect to Whitacre-Greer, Waynesburg, Ohio 44688. Phone (216) 866-9331.

Thin pavers shown here are available as 3 3/8" x 7 3/8" rectangles. All are 5/8" thick. Compressive strength 10,500 psi. Maximum average absorption rate 4%. Freeze-thaw cycles, 100 minimum. Size and distortion tolerance and color variations on pavers will meet ASTM Designation C-216, Type FBS.

Circle 16 on inquiry card

WHITACRE-GREER
WAYNESBURG, OHIO 44688
Creative and practical
Osmose Flame Proof Wood

The warmth and beauty of gently curving wood creates a deep sense of peace and serenity. Yet, it's founded on a rock of practicality. Both ceiling and roofing system, bridging and decking, are constructed of Osmose FLAME PROOF WOOD.

Along with care-free beauty, Osmose FLAME PROOF meets today's demands for fire protection. It meets all major building codes and the approval of insurance rating bureaus for interior decorative and structural use. Your clients can enjoy the warmth and charm of wood and, frequently, a preferred insurance rate classification.

Whether you're designing a church or a school, a supermarket or a warehouse, fire retardant FLAME PROOF WOOD belongs in your design. For details, check us in Sweet's General Building File 6.5/Osm. Or write us for our brochure, data sheets and the name of your nearby Osmose wood treating specialist.

Osmose Wood Preserving Co. of America, Inc.
980 Ellicott Street, Buffalo, New York 14209
Circle 17 on inquiry card
You get consistent quality and appearance in cedar shingles or shakes through every phase of your project...
...if they're put up the easy way.

When you design a project to be built in phases, consider the unique advantages of Shakertown Siding. It's the easy way to give your units the natural beauty and low maintenance of genuine cedar shingles or shakes. And the surest way to get the quality look you design into the job, every time.

That's because Shakertown Siding is made of clear, straight-grain #1 grade red cedar shingles and shakes which are permanently bonded into 8-foot, wood-backed laminated panels.

There are no seconds, and no grade falldown. And to make sure, every panel is triple-inspected during manufacture.

So you can count on consistent product quality and appearance, from the first delivery to the last.

You can also count on consistently true application—even with different crews during different construction phases.

The reason? Shakertown Siding is automatically self-aligning. It goes up fast and easy, with nailing only at the studs. And without the need for specialized craftsmen.

Construction is faster, labor costs are lower. So the installed cost of Shakertown Siding is less than that of individual shingles or shakes.

Next time specify Shakertown Siding. Choose from four textures, with 7" or 14" exposures and staggered or even buttlines.

Write us for product and application details.

Shakertown Siding

Box 400, Winlock, Washington 98596, Phone (206) 785-3501. In Canada: Bestwood Industries, Ltd., Box 2042, Vancouver, B.C. V6B 3R6

The Easy Way
**SICO® designs privacy for tenants, profits for you.**

*SICO Folding Fold wall table comes in several outdoor wood finishes and custom sizes and shapes. Floats up out of the way to become an attractive design element. SICO In-Wall beds and Wall Systems provide a “Fifth Wall option” that makes efficiencies more attractive and rentable. Can qualify for inclusion in your financing.*

*SICO Floating Fold wall table seats four. Comes in six colors. Floats up out of the way, finger-tip easy, to become an attractive wall mural.*

**The expandable efficiency.**

It's designed to minimize tenant turnover resulting from lack of privacy, or lack of usable space. It's designed to let you charge more for less space, while offering more attractive features. SICO calls it the Fifth Wall System. And will custom design to your needs or offers you the 480 sq. ft. plan here or a 350 sq. ft. plan.

Attached to the floor, the SICO In-Wall bed can qualify as part of your financing. Options include mattress/box spring (twin, double, or queen), night stand, desk/table, and cabinet

In your choice of several attractive finishes.

Don't wait. Send for the name of your local SICO representative. And for more information on how you can save space and add profit. Write: SICO, Incorporated, 7525 Cahill Road, Minneapolis, MN 55435, Dept. AR-5 Phone (612) 841-1700/Cable WILSICO

Innovation by design

![SICO Incorporated Logo](image)

Circle 19 on inquiry card

Circle 20 on inquiry card
THE CORRIDOR SOLUTION

We couldn’t help but notice that most corridors are 8 feet wide. So we make our beautiful Flor-Ever® sheet vinyl flooring 9 feet wide. And look—no seams!

THE ALTERNATIVES

Any way you look at it, the 6' alternative to our 9' commercial vinyl produces unnecessary seams. The Congoleum® corridor solution saves installation time and money, too. Furthermore, maintenance is minimal. Our commercial grade Congoleum sheet vinyl has a tough, non-porous wear-layer that usually needs nothing but damp mopping or buffing to keep it looking new for years.

The real workhorse of our commercial line is called Flor-Ever which is engineered for durability at an extremely competitive price, making it the best value on the market. Also, Flor-Ever is styled and colored to meet your design needs.

In addition to our efficient 9' designs, all Congoleum commercial vinyl comes in 12' widths, too. So for every corridor or floor you specify, you’ll find we have a beautiful solution.

For further information, call a Congoleum flooring contractor, Sweet’s Toll-Free Buy Line (800) 447-1980, or write Contract Sales Mgr., Congoleum Corp., 195 Belgrove Drive, Kearny, NJ 07032.

Congoleum
THE COMPANY OF FIRSTS
First printed felt based flooring 1906 • First intaid vinyl sheet flooring 1948 • First 12' rotogravure vinyl flooring 1957 • First chemical embossing 1963 • First family of no-wax floors 1968 • First 15' vinyl flooring 1974 • First Chromabond system 1978 •
INTEGRITY OAK™

A Long-Bell® breakthrough.
Cabinets to out-custom customized units.

With Integrity Oak we deliberately set out to out-custom customization.
This meant the greatest possible use of the best materials. Solid Oak doors, face frames and drawer fronts; oak veneer side panels, hardwood drawer slides.
It meant an unfussy elegant design that complemented these materials.

It meant solid construction and sensible mechanics—such as a center-mounted ball-bearing drawer suspension system.
It meant more than 100 modular sizes to fit almost any space in the kitchen, bathroom or throughout the house; to permit stacking, arrangements in patterns, suspension from the ceiling, and placement in kitchen islands.
It meant a microwave oven cabinet, free-standing hutch and every kind of pull-out, fold-out and revolving shelf feature. All the subtle conveniences you look for in customized kitchens—and more.

It was a tough order, but we think we succeeded. Can you imagine what it will mean for you and your clients?
Long-Bell Sungrain Oak cabinets have already made a name for themselves. For many good reasons.

They give your clients the fresh, European look wanted in a modern kitchen. While they give you something nice as well:

A reasonable price.

Modular Sungrain Oak cabinets are fully assembled and pre-finished for quick installation from the carton to the wall. They're priced lower than custom-made cabinets.

Which simply means that you're impressing your client with a look that can't fail and quality that won't quit. While you're also saving money, staying within budget, or using the savings somewhere else to make the home or condo even more attractive.

So get the contemporary style people want at a price you're going to like. Find out about Sungrain Oak. A great Long-Bell cabinet.
The Oakur Collection, a contemporary grouping of solid red oak, features a durable conversion finish and high pressure plastic laminated tops. Other features are rounded corners, extruded aluminum trim, and plastic surfaced drawer bottoms. The Oakur Collection offers a complete line of beds, desks, dressers, and chests for contract use.

For more information, write R-Way or visit one of our showrooms in New York, Chicago, Atlanta, Dallas and Minneapolis.

Circle 22 on inquiry card
We helped Charleston look old before its time.

Charleston, S.C. is dedicated to the old look. When a building requires restoration and protection, architects like Simons, Mitchell, Small, and Donahue specify Thoro System Products.

The Mills Hyatt House was torn down and completely rebuilt to look like the original Mills House.

The Citadel, City Hall, individual homes, public and private buildings stress the rough texture styling of a bygone era.

Thorite is used for patching and filling blistered and honeycombed concrete.

ThoroSeal Plaster Mix fills and seals holes and voids with a heavy-base cementitious coating — not a thin paint film.

Acryl 60 adds bonding, integrally, improving mechanical properties and adhesion.

Thorosheen is the masonry paint which is specifically formulated to withstand exposure.

An ideal color finish for any project.

For waterproofing, restoring, protecting and correcting concrete and masonry, specify Thoro System Products.

For information write for circular #71. Or write, detailing your specific problem.

THORO SYSTEM PRODUCTS

© 1976 Standard Dry Wall Products

Acryl 60, Thorite, Thorosheen and ThoroSeal are Registered Trademarks of Standard Dry Wall Products.

Standard Dry Wall Products • Dept. AR 795
Main Office: 7800 N.W. 38th Street, Miami, Florida 33166
Western Office: 38403 Cherry Street, Newark, California 94560
Circle 23 on inquiry card
No other material makes as much sense in as many places as real ceramic tile.

American Olean is Ceramic Tile.
Revere SUN-CENTER™ solar power package takes the hassle out of installation

No more of this!

Now, with new SUN-CENTER, installation of Revere solar powered domestic hot water systems is easier than ever. SUN-CENTER is an assembly of pre-piped, pre-wired components that can be hung conveniently on the hot water tank or on a nearby wall. Make two joint connections, plug in and the system is ready to operate. No more pipe cutting. No joint sweating.

You get the same top quality components that have been field assembled up to now. The important difference is SUN-CENTER... a compact, pre-assembled and pre-tested package that takes up much less space, installs faster and easier, and assures proper installation and higher reliability in operation. And it makes a neater, more attractive installation in the bargain.

For more information, see your Revere Solar distributor. Or contact Revere Solar and Architectural Products, Inc., P.O. Box 151, Rome, NY 13440. Phone: 315/338-2401.

REVERE
SOLAR AND ARCHITECTURAL PRODUCTS, INC.
A subsidiary of Revere Copper and Brass Incorporated

Circle 25 on inquiry card
Prospect in the West for solid-as-gold design ideas!

If you’re inspired by the creative work of your peers, here’s a gold mine of ideas for you. It’s a mother lode of creative designs that features 68 of the most notable recently built homes in the West. Here you can pick up nugget after nugget of imaginative know-how and design ideas that can put new glitter into your own work.

A Rich Vein of Practical Lore

What is a “Western” house? It’s a house that expresses a unique approach to design—not just a set of rules. It’s the focused expression of an individual’s response to people and place. The Western houses shown in this volume are culled from *Architectural Record* magazine. They offer brilliant designs, elegant engineering solutions, new twists on age-old architectural principles, imaginative uses of some severely limited sites, and much more.

A Splendid Panorama of Outstanding Architecture

The book views an impressive variety of houses and sites from the cities to the wilds of nature. Here you’ll see vacation homes and townhouses (both single and multi-level) . . . seashore retreats . . . houses perched on mountains and cliffs . . . houses in the desert, the cities, and the woods. Whether elegant or modest, large or small, costly or inexpensive—each house has simplicity, integrity, lack of pretense, and perfect harmony with its natural environment. You’ll find this volume a source of both discovery and delight!

SPECIAL FEATURES

★ Explores 68 outstanding contemporary Western houses, selected from *Architectural Record*
★ Oversized—9x12-inch pages—to show you each home in detail
★ Features 510 choice photographs, many in full-page size, and 16 pages in full color—plus 131 plans, diagrams, and drawings
★ Helps clients “visualize” architectural concepts and effects—improves client/architect communication

In this volume you’ll see such sights as . . .

- a novel use of greenhouse windows in a residential structure
- an unusual Oregon mountain home that takes full advantage of spectacular views by making irregularity a virtue
- a remarkable solution to the problem of a wedge-shaped lot with a breathtaking view—but one that’s almost too steep for construction
- a soaring massive concrete dome that creates a surprisingly warm interior space
- a modest subdivision plot achieving maximum design effects with a daring location of the structure and a minimum of materials
- a brilliant example of innovative re-creation: a classic 1932 house rebuilt with a new emphasis on human comfort and modern technology
- a 12-foot framing module that saves money—yet creates an eye-catching structure—through creative use of the basic box shape
- an impressive “basic house” described by the architect as “overlapping sheds with skylight spaces between forms”

Houses of the West

Edited by Elisabeth Kendall Thompson, FAIA

SEE THIS BOOK FOR 15 DAYS—FREE!

ARCHITECTURAL RECORD
1221 Avenue of the Americas
New York, N.Y. 10020

Please rush HOUSES OF THE WEST (002339-5) for a free examination. At the end of 15 days, I will either remit $18.95, plus local tax, postage, and handling or return the book.

Offer good only in U.S. Order subject to acceptance by McGraw-Hill.

Print Name ____________________________
Street Address ____________________________
City ____________________________ State __________ Zip __________

PAY NOW AND SAVE! Remit in full with this order, plus any local tax, and McGraw-Hill pays regular postage and handling. Full return privilege.

03K-668-4005-3
The Winners:
1979 Plywood Design Awards

TOM WILLIAMSON  BOB SWATT  BERNARD STEIN
ARCHITECT: Robert Swatt, AIA/Bernard Stein, BUILDER: The Groupdesigners, Inc. LOCATION: Berkeley, California. JURY: "A by now classic style of design — the plywood cube — very nicely solved. This design is adapted beautifully to the steep site. The use of plywood fins versus posts carries the house to the ground, creates a good relationship to the site. Completely understated — every element and relationship carefully considered — a small house that will live and feel like a bigger home."

RESIDENTIAL/MULTI-FAMILY:
No awards were given in this category.

JURY: John D. Bloodgood, AIA, Des Moines, Iowa; Robert L. Durham, FAIA, Seattle, Washington; Richard J. Bertman, AIA, Boston, Massachusetts.
BUILDER: Charles Noble Company.
PROJECT: Old Market Addition, Encinitas, California. JURY: "A simple solution nicely handled, doesn't get carried away. Spatially very nice. Plywood panels neatly expressed as part of the design, not just a skin. The entire complex is expertly tailored to the basic character of a 4x8 sheet of plywood."
RESIDENTIAL/SINGLE FAMILY

   LOCATION: Bellevue, Washington. JURY: “Very straightforward. Simple, innovative use of pole structure within the house adds interest to the spaces and gives the house its own special tree-house character.”

   LOCATION: Sausalito, California. JURY: “Skilfully detailed and spatially very interesting. Difficult site has been surmounted by an interesting design which integrates the man-made forms with the natural contours.”

COMMERCIAL/INSTITUTIONAL

3. ARCHITECT: E. James Smith Architects/Inc. BUILDER: Metro Park District, Toledo.
   PROJECT: Buehler Walking Center, Swanton Township, Toledo, Ohio. JURY: “Use of wood in an open three-dimensional structure adds to rather than detracts from the forest environment. Skilful integration of natural and man-made elements.”

4. ARCHITECT: Roland/Miller/Associates.
   BUILDER: Fostmeier Construction.
   PROJECT: College Union/Sonoma State University, Rohnert Park, California. JURY: “Very pleasant wall surface interest by the application of battens on the plywood. Proportions of the exterior are particularly pleasing, give a human scale to the building make it more flowing, at ease with the site.”

5. ARCHITECT: Paderewski-Dean-Albrecht-Stevenson, Architects.
   BUILDER: Ninteman Construction Co.
   PROJECT: Avion Medical Dental Office Building, La Mesa, California.
   JURY: “Well integrated with the environment. Wood texture has been skilfully used to..."
create the pleasant character presented to the public."

SPECIAL CITATION (Runner-up for First Award)

6. ARCHITECT: Sumner Schein Architects and Engineers. BUILDER/DEVELOPERS: Dimeo Construction Co. and Kates Properties. PROJECT: Mill River Square Building #2, Woonsocket, Rhode Island. JURY: "Very good New England flavor, charming. Not eclectic, doesn't copy past styles, but gives the viewer a sense of heritage appropriate to the area."

VACATION HOMES

7. ARCHITECT: Paul A. Zorr. BUILDER: Paul A. and Judy A. Zorr. LOCATION: Green Lake, Wisconsin. JURY: "Nicely articulated joint details, well thought out. Proportions are such that a small building looks much more important. A simple program with a simple solution well handled."

8. ARCHITECT: Davidson/Johnston Architects. BUILDER: Interland Contractors Ltd. LOCATION: Whistler, B.C., Canada. JURY: "The buildings reflect a sporting look appropriate for recreational condos. Modular units create a successful solution for a steeply sloping site."

NON-CATEGORY AWARD*

9. ARCHITECT: Don Knorr FAIA and Associates. BUILDER/DEVELOPER: Joseph M. Whelan. PROJECT: Portola Valley Ranch, Portola Valley, California. JURY: "Sensitive use of the land. Good variety of exterior designs without losing the sense of unity. The simplicity of the architectural forms relates pleasantly with the native trees."

Footnote:

*Although it didn't fit well enough into the existing categories to classify, jurors awarded a special, non-category Citation of Merit to this entry on the basis of impressive siting, design and execution.
More Ideas

1. ARCHITECT: Don Nieni of Linn A. Forrest Architects, AIA; BUILDING: Berg Construction Co., Inc.; PROJECT: Auke Bay Fire Station, Juneau, AK
2. ARCHITECT: Goodwin B. Stohberg Associates; BUILDING: B-W Construction; PROJECT: Birchgrove Park development, Mountain View, CA
3. ARCHITECT: Lawrence Enyart; BUILDING: Davis & Hocking; PROJECT: Group 4 Solar units, Globe, AZ
4. ARCHITECT: Peter Jay Zweig; BUILDING: Peter Jay Zweig; PROJECT: Zweig residence, College Station, TX
5. ARCHITECT: Robert N. Smith & Associates; BUILDING: McNitt Brothers; PROJECT: Lake Claiborne State Park, Claiborne Parish, LA
6. ARCHITECT: Robert J. Noll, AIA; BUILDING: Herman Brothers, Inc.; PROJECT: The Kaplan residence, Lambertville, MI
8. ARCHITECT: Robert Sawyer, AIA, and Harry Watkins, AIA; BUILDING: McKim and Sawyer, AIA Architects; BUILDING: Murray Construction Co.; PROJECT: "Station One" Condominiums, Wrightsville Beach, NC
9. ARCHITECT: Hastings & Chiveaux Architects, Planners; BUILDING: Lincoln Property Co.; PROJECT: Westgate Centre, Creve Coeur, MO

If we can help you with even more ideas using plywood and plywood systems, please write us: American Plywood Association, P.O. Box 11700, Tacoma, WA 98411.

The Plywood Design Awards Program is sponsored by the American Plywood Association and Professional Builder & Apartment Business Magazine.

Circle 26 on inquiry card
A PURE WOOL FANTASY FROM THE MAGIC NEEDLE OF EDWARD FIELDS

NO LIMIT TO CARPET DESIGN AT / EDWARD FIELDS

232 EAST 59TH STREET • NEW YORK, N.Y. 10022

BOSTON • CHICAGO • DALLAS • HOUSTON • LOS ANGELES • PHILADELPHIA • MIAMI • SEATTLE • TORONTO • VANCOUVER • CALGARY • SYDNEY, AUSTRALIA • PARIS

Circle 27 on inquiry card
Carpeting of Antron® III resists dirt better, stays new-looking longer.

The secret: Unique hollow-filament fibers.

Antron® III nylon is the only carpet fiber with a rounded hollow-filament structure. So it resists dirt better than other nylon fibers. The smooth exterior shape of Antron® III minimizes dirt entrapment, and the hollow-filament structure scatters light to make dirt less apparent. So the carpet stays new-looking longer than ordinary nylon carpeting.

Antron® III is durable. Pile of Antron® III resists crushing and abrasion even in heavy-traffic areas. Keeps its fresh, new look.

Antron® III controls static shock. Gives you protection that won't wear out or shampoo out—because it's built right into the fiber.

That's why the Fluor E&C used carpeting of Antron® III nylon to cover over 1,100,000 square feet in its Southern California Division in Irvine, California. And why your next contract carpet should be Antron® III nylon.

Write for Specifiers' Information Kit:
Du Pont Company
Room 37229
Wilmington, Delaware 19898

Installation: Fluor Corporation Engineers and Constructors, Inc., Irvine, Calif.

*Du Pont registered trademark for nylon fiber. Du Pont makes fibers, not carpets.

Circle 28 on inquiry card
Another economical, energy saving idea from Lennox.

**Lennox wins the Air Conditioning SEER Sweepstakes.**

If you’re looking for the air conditioner with the highest SEER, only Lennox has it.

"11.7" is the winning number. The highest SEER rating recorded in the industry, and only Lennox achieved it with the new HS13 Landmark® III 2½ ton residential air conditioning condenser.

No other manufacturer can match it. Lennox quality, combined with this efficiency is in a class by itself. The Lennox HS13 is the newest energy star in a star-studded line-up of super, high efficiency Lennox air conditioning systems. Available in 2½, 3, and 3½ ton models... with a new extra large outdoor coil, plus an improved economical compressor to give the HS13 a definite energy edge over the rest of the industry.

Another fine example of Lennox leadership in economical, energy saving ideas for home and business.

For full information on the new HS13 and other Lennox air conditioning systems, write Lennox Industries Inc., P.O. Box 40450, Dept. 965, Dallas, Texas 75240.
New ACOUSTONE® in bold dramatic textures

...and color clear through!

Now, America’s prestige ceilings won’t chip and tell when accidentally scraped by tools or ladders. That’s because the color runs all the way through today’s ACOUSTONE tile and panels; practically eliminates the need for touch-up work. ACOUSTONE combines sound-soaking function with the ultimate in aesthetics.

Natural earthen tones include Pumice, Clay Gray, Ivory and Sandstone in patterns shown above. Also contemporary colors in a wide selection of distinctive textures.

See your U.S.G. representative. Or write to us for specifics at 101 S. Wacker Dr., Chicago, Ill. 60606, Dept. AR59

B. BOULDER pattern. Coarsest surface in acoustical ceilings for massive interiors.
C. GLACIER pattern. Rich texture is reminiscent of job-applied “wet” construction.
D. SEACREST pattern. Rough, almost non-directional texture adds design excitement.

UNITED STATES GYPSUM
BUILDING AMERICA

Circle 30 on inquiry card
New design ideas for resort and country houses
new design ideas for ski and hillside houses
new design ideas for weekend and summer houses
new design ideas for beach houses
new design ideas for lakeside houses
the best of the best since 1970

The Architectural Record Book of Vacation Houses
Second edition

Selected by the editors of Architectural Record

256 pages, 9 x 12 inches, more than 300 illustrations

See 62 of today's most exciting vacation houses and how architects are turning America's "let's-get-away-from-it-all" dreams into living realities...

Both you and your clients will put this rich edition of VACATION HOUSES to the best of use—to glean inspiring and practical ideas from it! Bursting with exterior and interior photographs (black and white and full color), site plans, floor plans, and such specifics as cost range, this beautiful sourcebook shows you and discusses 62 of the very best new designs architects have come up with for vacation sites in the United States since the first edition in 1970. As many as 43 of these were Record House Awards winners.

Each of the houses you'll visit is provocative, stimulating, idea-filled. All together, they offer concrete answers to a considerable variety of sites, dreams, desires, needs, and budgets. They will not only help prospective owners to crystallize their unformed notions, but will give you, the architect, a springboard for exchanging with clients' specific verbal and visual ideas about approach and appearance, feeling and form.

They're the best of the best from the pages of Architectural Record!

Here are the top successes—for all climates, terrains, tastes

Wooded hideaways, lakeside cabins, country cottages, meadow-framed farmhouses, studios by the sea, slopeside chalets, dune nests, mountain aeries, private oases within planned communities—they're all here! And they're all models of intelligent, sound development—economically, architecturally, and ecologically.

Keep your eye on today's trends, philosophies, styles in America's "second homes"

What kinds of second houses are people dreaming about? What do they want and expect from that home away from home—whether it be a summer stopover or a year-round vacation haven? Often what the owner wants is a combination of opposites. Privacy and more involvement and activities with family; Elegance and ease; Simplicity and excitement. Formality and casual day-to-day living. But whatever they want, whatever the mood, these designs display an amazing degree of sensitivity, perception, freshness, and inventiveness. And whatever the individual site, whatever the individual taste, the designs promote full enjoyment of life and nature—and a deep experience of the site itself.

Practical talk for the practicing architect

Inspiration and stimulation aside, stress is also placed on such practical topics as costs, methods, and materials. Construction budgets range from under $12,000. Upper brackets include a "mini-hotel" for a family of twelve! Hundreds of techniques are explained. For achieving dramatic effects and visual surprises. For accommodating a wide variety of activities. For applying eye-deceiving devices that can expand or contract space. For creating environments that are at once bold, quiet, sophisticated, and rustic! There are also ideas that are easily repeatable in several different versions!

MAIL THIS COUPON TODAY FOR 15-DAY FREE EXAMINATION

ARCHITECTURAL RECORD
1221 Avenue of the Americas
New York, New York 10020

Please send me VACATION HOUSES, Second Edition (002337-9), for 15 days' free examination. At the end of that time I will remit $19.95, plus local tax, postage, and handling, or return the volume without obligation. This offer good only in the U.S. and subject to acceptance by McGraw-Hill.

S\$/SAVE MONEY! If you remit in full with this order, plus local tax, McGraw-Hill pays all regular postage and handling costs. Return books in 15 days for full refund if not completely satisfied.

AR RH-79
Belgian Linen Wallcovering

Belgian Linen Association, 280 Madison Avenue, New York, N.Y. 10016, 212/685-0424.
Circle 51 on Reply Card
Cedar endures.
If man in the beginning had sought the perfect material for aesthetic and practical needs, a compliant God could have offered nothing better. Reddish brown when new, silvery grey when old. Homogeneous with nature. Permeated with natural oils that make cedar endure. A superior insulator against the elements. Red Cedar handsplit shakes and shingles. Warm to the eye and to the soul.

Red Cedar Shingle & Handsplit Shake Bureau
Suite 275, 515-116th Ave. N.E., Bellevue, WA 98004
In Canada: Suite 1500, 1055 West Hastings St., Vancouver, B.C. V6E 2H1

Please send me some color brochures on Red Cedar Shakes and Shingles.

☐ Timeless Beauty (Residential) (35C)
☐ Superior Interiors (35G)
☐ Vacation Homes (35D)
☐ Re-roof with Cedar (25C)
☐ As-four (81.00)

Hard Indian ceremonial house in Old Klamath Cedar.
To touch the earth.

Name__________________________
Address________________________
City__________________________State______Zip______

(35C)

AR19
The reader will quickly perceive that, give or take a bedroom or ancillary space, the houses in this issue have rather similar programs that spring from a set of assumptions that are widely shared by both architects and their clients. Whether budgeted at $30 per square foot or $70, whether designed as a year round or vacation residence, each plan provides for essentially the same group of functions; combining some, isolating others as custom or common sense have long required. And all save two of the houses are constructed largely of wood, using the same stick-building techniques that have served almost unchanged for practically a century.

Yet in their full expressions, these 20 houses selected for the 1979 Awards of Excellence for Design are remarkably diverse. No two could possibly be mistaken for each other. Each has been personalized down to its smallest details in a process that expresses individual and regional preferences, responds to peculiarities in site and climate, and glories in refinement and experiment. The Lindstrom house (pages 60-63), for instance, is an extraordinary piece of design not only for what it achieves spatially but because it experiments with a humble architectural material—corrugated plastic sheet—elevating it to a wonderfully majestic but thoroughly appropriate prominence. The house by Graham Gund (cover and pages 50-53) enchants by its use of familiar architectural elements in entirely personal and unexpected ways. Fred Osmon’s house (pages 110-112) comments ironically (and amusingly) on human adaptability in a climate not entirely hospitable to human needs.

Each of these is an instance of what good residential designers do awfully well: find what is unique in each set of circumstances, experiment with it, amplify it, give it built form. This is also what makes houses fun to contemplate, to criticize, to design and, most important, fun to live in.—Barclay F. Gordon
Shapleigh house on the Massachusetts coast
Graham Gund, Architect

Like any good New England house, this one on the Massachusetts coast is full of regional and historical imagery. But architect Graham Gund has freshly examined this imagery—creating a house that is in every detail appropriate to its site and the family that lives there.

The site is a small peninsula with ocean views in three directions. The problem was to take into account not just the sun and southern views, but also the persistent summer winds off Buzzards Bay. The solution, a three-part structure, surrounds and protects a courtyard which is central to the house not just physically but symbolically. The plan reflects the family's pattern of living: the owner's children and grandchildren visit in the summer. Thus, a winterized section (left, large photo) for the owners has a kitchen and dining room, a living room with large windows and a porch facing the view, and an upstairs master bedroom and den. A second section (right in photo) is for warm-weather use only, with its family spaces, four bedrooms, three "hide-a-way" lofts, all connected with outdoor walks, stair, and second-level boardwalk. The third section is garage and storage area, topped with a tower reached by ladder.

There are private outdoor spaces for both families (plan, overleaf), but the courtyard is the primary, shared living area—a stage for many family activities enlivened by changes in level, by freestanding, squared-off "archways" that create outdoor rooms and frame the view, and by subtle colors (white, beige, pale blue, pale salmon) on the clapboarded walls and gates. Around the outside, in the local vernacular, are simple weathered shingles.

12 Arrow Street
Cambridge, Massachusetts
David Perry—job captain
Owner: Mr. and Mrs. Warren M. Shapleigh
Structural engineer: Souza & True
Color consultant: Tina Bebe
Contractor: Misham Construction Company
Photographer: Steve Rosenthal
The interiors all have a sense of great shelter, and are detailed with great care. Yet, since the sections of the house are uniformly 16 feet deep, most rooms have a view not just of the courtyard but of the stunning coastline in three directions. At left is the kitchen in the main house; below left and opposite the living room of the main house; below right in the living room of the guest house. The plans show how the sections of the house create the sheltered courtyard, and show the organization of the court into private outdoor sections for both families, and into open and sunny, or sheltered and shaded, spaces. From both the road side and the beach side, changes in level and freestanding gateways create a sense of arrival...
Franzen residence
Bridgehampton, New York
Ulrich Franzen, Architect

New code restrictions stipulated that the first floor of this vacation house, which is adjacent to wetlands and in an area subject to periodic hurricane flooding, be lifted 15 feet over mean high water—in this case some ten feet over existing grade. The architect, building for himself, sought to “float the house over a sea of bayberry bushes,” supporting the structure on an 11- by 13-foot grid of pressure-treated piles. 3-inch by 12-inch girders form the primary deck structure. This frame is braced by steel tubes and by X-bracing below. Roof loads are carried down to this deck structure by stud walls and hollow steel columns. The complete 40- by 60-foot volume cantilevers two and a half feet beyond the pilings.

While the house is winterized, it is intended chiefly as a summer and weekend retreat. Four different decks for viewing or sunbathing have been provided: one at the entry, a second on the northwest corner, a third off the living/dining area and a fourth on the roof. The choice is intended to lure people outside no matter what the sun or wind conditions.

The enclosed space adds up to only about 1650 square feet. The rooms are gently defined and most open generously to the various views without sacrifice to privacy where needed. In shaping these spaces, Franzen responded to the sweeping horizontality of the site, its foreground vistas of low, dense greenery, and the all but unlimited horizon of water beyond. The principal finishes are vertical tongue-and-groove cedar boards for exterior siding, half-inch gypsum board for most interior partitioning, carpeting for floors, cedar paneling for ceilings, redwood decking outdoors and a 5-ply bituminous built-up roof. All windows are double glazed.

Architect and owner: Ulrich Franzen
555 Madison Avenue
New York City
Project architect: David Acheson
Engineers: Geiger-Berger Associates (structural)
A.F. Turk & Son (custom metalwork)
Contractor: Lazlo Githeny
Photographer: David Franzens®ETO photos
The curved partition in the photos at left separates the living room from the dining and kitchen spaces which are otherwise part of a single, subtly-shaped volume. The master bedroom, photo above, opens to the north and west, to splendid views of water and shoreline. The carefully selected pastel hues of the fireplace area are given vibrance by the clerestory lighting from above.
John Slack residence
Omaha, Nebraska
John Slack, Architect

The site fell off sharply from the level of the access road and surface runoff spilled down a ravine through the center of the site. With these challenges in mind, Slack sought and obtained a variance which permitted him to locate the detached garage on an area of high ground that encroached into the required 35-foot setback. This was the key. Then by rotating the foundation wall for the house 45 degrees from the road axis, the water runoff was divided into two channels; one passing harmlessly near the rear of the garage, the other collected into a scupper under the front entry bridge. The remaining upper structure is supported by concrete piers spaced 12 feet on center.

The axis of the road reassures itself in the enclosed plastic barrel vault that links house with garage and in various sections of exterior wall and interior partition. The result is a lively geometry that produces some unexpected volumes inside. Circulation is confined to a triangular pattern off the entry while the major spaces open to the downhill side to views of the heavily-treed lot. The pattern upstairs is similar except that two of the three bedrooms overlook the double-height living room below. The roof over the upstairs hall is heavily pierced with skylights (photo upper right) that admit daylight through a triangular opening in the floor to the main level below.

The Slack house employs substantial areas of glazing. Some are protected by roof overhangs in the form of corner decks, others are located with respect to the canopy of trees that shades much of the lot in summer.

Cedar is used extensively inside and out to provide visual unity and warmth. And it is a warm house—angular, playful, inviting in its flow of space.

Architect, owner, contractor:
John Slack
5333 Raven Oaks Drive
Omaha, Nebraska
Photographer: Stephen Parezo
Lindstrom residence  
Bainbridge Island, Wash.  
Morgan and Lindstrom  
Architects

The high quality design of this unique contemporary residence lies with the coalescence of forms and materials. The site is on Bainbridge Island, one of the largest islands in Puget Sound off Seattle; it is heavily wooded with some views to the waterfront. The house was set between two large stands of trees to maximize its isolation from nearby traffic and to permit sunlight to directly hit the entire house. As a bonus, an open children’s play yard was created, and it, too, is filled with sunlight.

Called a “structure within a structure” by the architects, an all wood frame supports a superimposed roof, under which is shielded enclosed living quarters. The frame is composed of 24 heavy timber posts and four main beams; a large 7,000-square-foot roof is totally covered with translucent fiberglass roof panels. The integrated “understructure,” clad in cedar siding, has a pristine appearance and sharp outline that accentuates the visual strength of horizontal and vertical lines.

The design of the super structure is primarily for visual effect—as the sunlight strikes it, the entire roof lights up, for the translucent roof panels diffuse the sunlight, giving the appearance of a very light and airy structure.

While there is some design influence from structures built by the Northwest American Indians seen in the use of massive timber poles and the cross-bracing at the apex of the gable, an Oriental influence is overpowering. An external spatial sequence exists, from open area, to white-colored rock bordering the pavilion-like building, to an elevated deck, to the great roof.

Details of the deck walkway (top right) and the main entrance (bottom right) demonstrate the almost ceremonial procession into the interiors.
To maximize light throughout the interior, two lines of skylights were used, a total of 14 individual rectangular units, that run along the walls of the combination living/dining room and over the short corridors between the study, family room and kitchen. The skylights in the living/dining room (right and far right) highlight artwork displayed near the perimeter walls. Light entering is diffused because of the large translucent roof, but when looking up there can be seen an interesting pattern of crisscrossing beams from both structures.
On two sides of the house, there is an open veranda. The main entrance (left) is not, however, positioned off the front deck but rather on the side, connecting to a broad interior gallery, off which all rooms flow. Unifying the interiors with the identical exterior material, cedar paneling was specified and timber posts were exposed to tie-in the superstructure as well as continue a procession pattern of spaces established outside. Views to the woods are available from the kitchen (right), family, study and laundry rooms; views to the waterfront are from bedrooms and living/dining area (below).
Behn residence
Berkeley, California
Peter Behn, Architect

Architect Peter Behn’s house for his own family of four rises from a steeply sloping site in the Berkeley hills, a site with unobstructed views to the west out the Golden Gate. Apart from the parking platform and entry, the street or uphill side of the house is completely closed for privacy and sound separation. On the south and west, the house is considerably more open though even here the decks and window walls can be closed off by two layers of roll-up shades—one inside and one out—a simple device for modulating breezes and controlling glare from a low winter sun.

The plan is a 28-foot square with functions distributed over three levels. The lowest level contains the architect's studio, an isolated space that is linked to the rest of the house only by an external stair. Living room, dining room, kitchen and deck occupy the intermediate level while the upper level is given over to parents' and children's bedrooms. Only the bath and children's bedroom can be closed off completely. All the other volumes, excepting of course the studio, flow into each other rather freely, borrowing space, returning it, establishing spatial definition of various degrees.

The architect describes the eclectic imagery of the house—and particularly certain details—as "nautical." The system of turnbuckles on the deck railings and curtained storage walls throughout are cited as examples. For the rest, he says, he drew on his recollections of Italy where he and his wife lived for several years.

In the selection of conventional framing, however, as well as primary finishes—cedar shingle and boards—the Behn house is a Bay Area solution, and a lively, expressive one.

Architect: Peter Behn
1709A Delaware Street
Berkeley, California
Owners: Peter and Kathleen Behn
Structural engineer: Raymond Lindahl
Photographer: Douglas Symes
Much of the character of the Behn house interiors derives from the owner's ample collection of art which is displayed on practically every surface. There are few places for the eye to rest.
Private residence
Wayzata, Minnesota
Hugh Jacobsen, Architect

On a nice winter's day on the northern prairies, when the outside temperature slips down to, say, 20 degrees below zero, this house stands apart from its surroundings, its forms abstracted and its visual isolation heightened by the blackness of wall and roof against the pale sky and deep-drifted snow. Called Six Black Barns, in fact, by its owners, the house reflects the region's vernacular forms and is shaped by some of the same harsh climatic forces.

In summer, however, the blanket of white turns into a long, sloping meadow of field flowers that dips down past a screen of trees to a distant lake. The major rooms open to this view through window walls facing south. Connecting these rooms is a circulation gallery with circular stair near one end. The two outbuildings are garage and guest quarters. They are located to form a gravel forecourt that encloses a turning circle, a circle that is planted out with European linden trees. Lindens are also used to form the screen beyond. When they mature, these trees will buffer the house against the prevailing chill winds and contrast effectively with the black paint of the house.

The interior photographs (next pages) reveal the sure-handed Jacobsen touch with spaces and detail. The soaring volumes, the backlighting, the spatial transparencies, the exquisite detailing of materials all bear the architect's signature and are as characteristic as the sharply sloping roofs and the picturesque massing.

Architect: Hugh Newell Jacobsen
1427 27th Street, N.W.
Washington, D.C.

Engineer: Kraas & Mok (structural)
Contractor: McKinley Construction
Photographer: Robert Lautman
The section, matched to the photo below, shows the book storage wall in elevation and the extraordinarily handsome knife-edge eave detail that is made all but invisible in the exterior photos by the accumulation of roof snow. Also shown in section is the roof cutaway that brings daylight deep into the house.
Flintoft residence
Nantucket Island
Bissell & Wells, Architects

The silhouette of the Flintoft summer house, with its steeply pitched saltbox roof and jutting "porch," stands at such ease on the elemental Nantucket shoreline that Islanders can feel assured they need not fear an invasion of modish cottages from the Hamptons over on Long Island. Such vernacular details as a fanlight, shingle siding, double-hung windows and a widow's walk further acclimate a design that is, one sees, highly sophisticated.

By swivelling a couple of elements 45 degrees to the house's square plan—one of the first-floor bedrooms and its surmounting sundeck, and the stair tower, as well as one wall of the master bedroom—the architect has created a complex form that, regardless of illusion, in no way recalls traditional Nantucket form.

At the same time, the small (less than 2,000-sq-ft) house encloses extraordinarily complex interior volumes, with overhanging balconies and bridges and sharply angled corners ("More furring," mutters designer Bissell).

The architect cut away segments of the perimeter wall to capture sweeping diagonal views that encompass dunes, beach and ocean, especially from the second-floor dining area through the Palladian doorway and fanlight and across the sundeck.

The house, built by a young couple with two children, occupies a one-acre site with neighboring houses on one side and a wilderness preserve on the other. Bedrooms and bathrooms are located downstairs, and living quarters upstairs are reached by a steep, tightly twisting stair.

A rail fence defines the property and inhibits dune-buggy incursions.

Architects: Bissell & Wells, Architects
132 Madison Avenue
New York, New York
Owners: Mr. and Mrs. Richard Flintoft
Engineer: Stanley Cleit
Contractor: Pat Paradise
Photographer: ©David Franzien/ESTO
Najarian residence
Long Beach Island, N. J.
Christopher H.L. Owen,
Architect

Building on an oceanfront site on the
New Jersey coast, the architect was
required to raise the finished floor up
three feet over existing grade and
support the rigid upper structure on
pilings, using what local zoning regu-
lations call "breakaway construction." In
the event of a calamitous wave, the
garage door, partitions and siding—
everything in fact below the raised first
floor—would wash away leaving the
upper structure intact and in place on
its pilings instead of collapsing it or
driving it into a neighboring house.

This principle, combined with the
owner's expressed desire to have
unrestricted views of the shoreline
from all living spaces resulted in the half
level plan. The master bedroom (photo
lower right), located over the garage, is
zoned away from guestroom and
bedrooms for teenage sons. The
living/dining space at the intermediate
level opens through shaded, double-
glazed window walls to fine ocean and
beachfront views. To keep this view as
open as possible, the deck is placed not
off the living room but on the level
below, and stair rails, where they occur
by necessity, are made minimal.

The massing is simple, sharp-edged
and rectilinear. The structure is clad in
vertical cedar siding turned back to
front to give the exteriors a rough-
sawn texture. Inside, the character of
the house is quite lively. The linear
development of spaces is offset by the
half level changes and by the adjust-
ments in ceiling height that the several
levels produce. The built-ins and prefab
fire box reinforce the vacation house
image although in fact the house is fully
insulated and can be occupied through-
out the year.

Architect: Christopher H.L. Owen
330 East 59th Street
New York, New York

Project architect: James W. Dixon

Owners: Mr. and Mrs. Jon Najarian

Engineer: Paul A. Cossen

Interior: Sylvia Owen

Contractor: David P. Ash

Photographer: Norman McGrath
Dickson residence
New Vernon, New Jersey
Crisman & Solomon, Architects

Perhaps as a gesture to the old barn that shares this meadow site, the architects have used pitched roofs and white clapboard, but the house they created for a family of five is anything but rustic. In the playfulness of its forms, in its pattern of fenestration, and especially in the sophistication of its details, the Dickson residence is a vigorous assertion of contemporary lifestyles. The owners, who travel often in pursuit of independent careers, required space for a surrogate parent during the periods they were away. This was provided in the form of a small apartment over a detached garage, a space that will ultimately revert to guest space for visiting children or friends.

The house takes shape around a tall living room that opens to a wrap-around deck facing south. Kitchen, dining space, music room and guest quarters share the lower level with the living room. A small screened pavilion completes the plan. Upstairs the house contains master bedroom suite, teenagers’ bedroom, a study overlooking the living room and a sun deck (over the screened pavilion) that is linked by an open bridge to the master bedroom. It is a relaxed and expansive plan that steps freely into the meadow in several directions.

While there are views in each direction, the best views are to the south and the architects have opened the house fully to this exposure. An existing bridle path passes close to the house. It was carefully preserved as the owners wished to feel a part of the regular activities of the countryside.

Architects: Crissman & Solomon
44 Hunt Street
Watertown, Massachusetts
Owners: Mr. and Mrs. Richard Dickson
Engineer: Charles Chaloff
Contractor: Robert Rochelle
Photographer: Steve Rosenthal
The care that has gone into detailing and into the selection of fittings and furnishings is nowhere more apparent than in the interior photos above and right. The skilful handling of lighting (both artificial and daylighting) helps to give these spaces an extended range of moods from relaxed to dramatic, a range that is further extended by the variety of color accents.
Materials familiar to Seattle—the cedar siding and lath—are here used in unfamiliar ways. The strong horizontal planes of the garage wall, the stairs to the terrace, the living room and, behind it, the main body of the house are strikingly set off by the rounded shapes of the lattice.
Williams residence
Seattle, Washington
Gerald A. Williams, Architect

This strong and handsome house was shaped by an extraordinary set of constraints: The lot is steep, only 50 by 120 feet, with 10-foot setback requirements front and back, and a height limitation to protect the view of the house up the hill. The design had to slide-step an existing garage which, under city ordinance, could not have living space above it. Finally, the view is to the south and southwest—and thus into the sun.

And thus the lacework of lath that shades the windows from the high summer sun without blocking the view or the sparse sunlight of Seattle's long gray winters.

The rounded forms of this dominant design element are a striking foil to the strong flat planes of the house, and are echoed softly inside the house (see plan). And in time, the lath will be a trellis of vines and plants—a gesture to the neighborhood of "reining" the site toward its original condition—a landscaped garden.

Despite the initial impression of complexity, the house is quite simple in form and plan. Photos right show the two main living spaces: The living room, given extra height by being set four steps down the hillside; and the two-story-high kitchen/dining space, center of activity for the Williams and their two boys. Both share the view and open to the terrace and gardens. The lower floor also has architect Williams' studio and a more formal dining space; a curving stair (echoing the forms outside) leads up to the bedroom level. The master bedroom extends out over the living room and has its own screened outdoor deck.

This is a splendid urban house.

---

Architect and owner: Gerald A. Williams of TRA,
4720 N. E. 36th Street
Seattle, Washington

Engineers: Donald G. Radcliffe of TRA
(structural), Robert D. Wells (mechanical)

Interior design consultant: William Wright
of TRA with the architect

Landscape architect: Dorothy Hussey

Contractor: Tom Paulsen
Photographer: Michael Burns
Cottage Renovation
Quoque, Long Island
Hobart Betts, Architect

The owners of what was a rather dilapidated beach front cottage were forced to abandon plans to demolish and rebuild when they learned that zoning restrictions would have prohibited a new structure at the same location. Instead they decided to renovate, thereby retaining the advantages of an existing location which offered superb views of the Atlantic to the south and Shinnecock Bay to the north.

Given this most difficult beginning, and working entirely within the existing envelope (again a restriction imposed by zoning officials), the architect created a lively series of spaces, most of them quite small but efficiently organized. The kitchen/bath complex interposes between living room and bedroom producing a tight circulation space and the only real indication in plan that the architect was not starting from scratch.

The long approach is a thin ribbon of boardwalk that links the house with parking at the north end of the site, parking that is shielded from view by a dune that also ensures acoustical privacy. The boardwalk continues on the side of the house, reaching out to deliver bathers from the new deck to the beach. Fences at either side of the new deck ensure privacy and protect sunbathers from chilling winds that sometimes sweep the site.

The renovation was simple but thorough. Windows were enlarged and in some cases relocated. Interior walls and ceilings were resurfaced with cedar boards. The exteriors were refinished in shingle to harmonize with adjacent houses. The new deck was built of redwood which is weathering naturally to a bleached silver gray.

In terms of amenities and use of space, a great deal has been accomplished. A measure of this accomplishment can be gauged from the fact that when the built-in-sofas are pressed into service as beds, the cottage can comfortably accommodate six people in only 650 square feet of space.
Isham residence
Sagaponack, New York
Moore Grover Harper,
Architects

Surrounded by potato fields, this village of shingle-clad buildings surrounds a courtyard. The couple for whom it was built—she’s an artist, he’s a diplomat—wanted a house that in its form and detail would evoke both local and faraway associations.

Two angular arches—one from the drive, the other from the fields—give access to the courtyard. At the first arch (right), and entering the main house, one moves down a tall hall to the living and dining area where, suddenly, the ceiling juts up and, through high windows, one’s view juts out (right, middle). Set into a corner, like a tea room, are low moveable platforms with tatami mats (right, below). This area, facing the courtyard, can be closed off with large framed panels which, hung from cedar beams on barn door track, can be rolled in from the halls.

The arched entrance from the drive also gives access to the two-level guest house. Its sitting room, in from which is a bedroom, also has a tatami platform; upstairs, another bedroom overlooks the space. Across the courtyard from the living area, the second arch angles over from the end of the master bedroom wing, framing a cropped view of the fields. This arch latches onto a studio (opposite, below) with a storage room and office. Northern skylights illuminate the large, high area. The essence of this house is that while it contains so much of the particular place it is in, it also contains the sense of other places. Maybe this is what one Japanese poet had in mind when he wrote, “In one potato are mountains and rivers.”

Architect: Moore/Grover/Harper
Essex, Connecticut
Charles W. Moore—project architect
Mark Simon—project manager
Owner: Hayward and Sheila Isham
Structural engineer: Spiegel & Zamecnik
Interior design: Robie Jacobson
Landscaping: Lester Collins
Contractor: Caramagna and Murphy
Photographer: Norman McGrath
photos courtesy House & Garden ©Conde-Nast 1979
The house is carefully built on a hillside plateau and screened on all sides by trees and shrubs. A row of trees at the edge of the deck acts as a windbreak at the same time that it shields the house from the uphill view.
Private residence
Big Sur, California
Marcel Breuer Associates,
Architects

In one of those radical transformations that occurs more often in literature than in life, the president of a successful corporation—a man who lived in a 12,000 square-foot house designed for him by Marcel Breuer Associates some years earlier made a new life. He moved to California and built again, this time settling into a house designed by the same architects but enclosing only 450 square feet.

The program for the house, of course, reflects the owner's new and greatly simplified lifestyle. Living, dining, kitchen and bedroom are one space. A small bath, just off the entry, and a low-ceilinged guestroom complete the interior plan. A large deck, almost equal in size to the enclosed area, overlooks the Pacific and provides a setting for relaxation or outdoor entertaining. It is augmented with its own fireplace to extend the time the deck can be used comfortably.

The architect's task was to build on this tranquil hillside in an unobtrusive way while at the same time generating something architecturally significant out of a program that, in its spatial requirements at least, was minimal. The strong roof form and the diagonal development of both plan and section were responses to this need.

Contracting the job himself, the owner built with whatever local assistance happened to turn up, using conventional wood framing, cedar boards and shingles, and straightforward details and joinery. The result, as the photographs show, is a design that is simple but certainly not without sophistication, modest but far from deprecatory.

Architect: Marcel Breuer Associates
635 Madison Avenue
New York, New York
Herbert Redford, partner-in-charge
Associate: Thomas Hayes
Photographer: Joshua Freilwald
Haupt residence
Amagansett, New York
Gwathmey-Siegel, Architects

The Haupt house rests squarely on a sandy site surrounded by dune grasses and low greenery. Like the Franzen house (pages 54-57) and other new houses in adjacent oceanfront communities, the Haupt house had to be raised ten feet over mean high water or four and a half feet over existing grade. This produced the opportunity for a series of half levels that the architects exploited with skill. The half levels are linked (see section above) by a series of stepped ramps that zone apart owners and guest bedrooms both vertically and horizontally. At the same time, the ramp space produces a tall, very powerful longitudinal volume off which all the other spaces take shape (photos next pages). This plan organization keeps all the circulation space along one wall, allowing primary living spaces to face south toward the view. By recessing the glazing line on this elevation, the very substantial glass areas are protected from the noontime sun in summer, but admit winter sun deep into the interior spaces.

The geometry of the design bears the firm's signature in its every part, but at the same time there is a good deal that is new, that reflects an evolutionary change in the firm's line of design development. One such signal is the more playful detailing of the fireplace wall, the see-through into the living room, or the elaboration of the handrails along the ramps (photos next pages). Another and even more obvious development is the selection of interior colors. The bright primaries of a few years ago are softened into a range of dark pastels and grays that are used to visually reinforce the intersection of planes and to heighten the sense of layering and density.

The Haupt residence is a fine piece of design: its spaces beautifully interrelated, its palette of colors and textures strongly stated, its detailing exquisite throughout.

Architects: Gwathmey-Siegel
154 West 37th Street
New York, New York
Owners: Mr. and Mrs. Melville Haupt
Engineers: Gelger-Berger (structural)
Thomas Polke (mechanical)
Contractors: Lado Girihy-Samuel Haupt
Photographer: Norman McGrath
The key to the plan is the series of ramps that link the various half levels. From the entry on grade, it is a half level up to the living dining and kitchen spaces. Half a level up from there: the guest rooms. The pool deck provides a forceful foreground for the views from several spaces. It is carefully related to living spaces and to changing rooms by a scissor stair at one corner. Access to the pool deck is also offered by a stair and walk along one side of the house.
Private residence
Westchester, New York
Keith Kroeger Associates,
Architects

The owners wanted a house that was comfortable for two with additional space for short visits by three grown children. Their site was a rocky promontory jutting into Long Island Sound. A number of specimen oaks dotted the site, throwing up huge canopies of green that filter the summer sunlight and mask the site from the harbor view.

The owners' special requirements included a large kitchen—both are avid cooks—where they could work simultaneously, a loom space, substantial display space for fishing equipment that included a fish cleaning sink.

Around these requirements a house of traditional form but very distinct personality took shape. The living room opens through large glass areas, some approaching maximum sizes, toward the harbor. The kitchen and dining spaces are separate but form part of the same volume and share essentially the same splendid views. Guest quarters, a two-car garage and fishing storage complete the plan on the lower level.

The study is a loft space over looking the living room that serves as a buffer between the active living spaces and the master bedroom. From the study, a view of the harborfront has been provided by raising the window heads in the corner of the living room (see photos at right). The master bedroom opens to splendid waterfront views in three directions.

The architect has planned the house in a way that takes full advantage of a fine site, detailed carefully, and provided landscaping and interior design services. The house, therefore, has a visible design consistency that is apparent inside and out.

Architect: Keith Kroeger
37 West 57th Street
New York, New York
Job Captain: Don Lasker
Engineers:
Andrew Elliott (structural)
Frank Scandale (mechanical)
Contractor: S.G. Homebuilders, Inc.
Photographer: © David Franzen/Esto
Operable sections in the window assembly are fashioned of solid core wood panels fastened by ship’s cabin hardware. These are located to provide cross ventilation without interrupting the views. The exposed joists visible through windows recall traditions of barn construction.
The interiors of the house reflect a high level of finish and detail, as well as concern for displaying works of art. Textures are used skilfully to highlight the structure and reveal its intersections.
Candy Factory Court
Philadelphia, Pennsylvania
Baker Rothschild
Horn Blyth, Architects

From a rather ordinary, turn-of-the-century urban building, last used as a candy factory (photo upper right), the architects have carved an office for themselves and four condominium apartments. The house shown here—the most elaborate of the four—is for architect-owner F. Cecil Baker. Baker’s house extends upward through three floors with entry, kitchen, living and dining space on the lowest floor. The intermediate floor includes master bedroom and study overlooking the dining space (photo lower right), while the upper level is given over to additional bedrooms. The spectacular well space, filled with daylight from skylights in the roof, gives the design a drama and verticality seldom achieved in residential design.

The building’s original steel structure was retained and used to express the essential volumetric organization. New walls were added where needed, and those requiring insulation were treated with a sand-finished plaster over sprayed-on insulation.

The owners of the four houses and the office make a condominium community. They share certain amenities and costs. Not the least of the advantages of the reciprocal arrangement is that the presence of office occupants gives the houses an important measure of security by day and vice versa at night.

The detailing is exceptionally thoughtful throughout and deserves the reader’s attention.

Architects: Baker Rothschild Horn Blyth
616 S. American Street
Philadelphia, Pennsylvania
F. Cecil Baker, partner-in-charge
Contractor: BRBH Developers
Photographer: Tom Crane
The living room (photos above) overlooks the street. The original steel girders and wood joists were retained, as was the brickwork. The Mexican floor tile is new. In the master bedroom (photo right) the bath tub is screened by a glass block partition. Child's room (photo left) is on the third level. A great deal of study and attention went into detailing these spaces as the photos amply demonstrate.
Conger residence
Guilford, Connecticut
Leela Design

Its most consciously developed elements—verticallity and symmetrical planning—combine to give this three-story Connecticut house a remarkably arresting presence. It rises from a secluded, rocky promontory overlooking Long Island Sound and offers occupants panoramic views from its upper levels.

The north side of the house (photo right) is as closed as the south side is open. Large areas of 3/4-inch insulating glass in factory sash admit almost unrestricted sunlight, collecting this heat in an underfloor rock storage bed for radiation at night. Heated air is drawn from the top of the space down through the mechanical core by a thermostatically controlled fan that pumps air back into the rock storage when it has reached a usable temperature. This passive system which can be augmented with an oil furnace and wood stove for winter heating, provides 40 per cent of annual heating requirements, a figure that will increase to 60 per cent when insulating blinds are installed next winter. In summer, all glazed areas can be opened to permit full ventilation of living spaces.

The other element in the Conger house that is developed with obvious delight is the structural system (see photos next pages). Eight trusses, made up of 4-by-8-inch oak sections, speak a love of wood joinery, of practical invention, of New England’s craft traditions too often forgotten in today’s preoccupation with prefabrication and stock parts. These same concerns carry through the design to custom cabinets, doors, furniture, even hardware.

The Conger house will not be to every reader’s fancy. Nor should it be. It is an assertion of one range of design values, richly, lovingly conceived, and eloquently stated.

Designers and builders: Leela Design
Steve Conger, David Conger, Paul Lytle
Box 239, Guilford, Connecticut

Owners: Steve, David and Linda Conger
Photographer: Robert Perron
The various interior views of the Conger residence shown here reflect a lively and steadfast interest in handcrafted building. The living room (large photo above) is on the intermediate level, overlooking the kitchen, and leads by a narrow, behind-the-fireplace stair (another New England tradition) to the master bedroom above (photo right). The master bedroom is flanked east and west by small decks, the only developed outdoor spaces in the house.
Private residence
Southern Arizona
Judith Chafee, Architect

This house for a couple with grown children derives much of its form and character from the conditions the desert itself imposes. Though equipped with a full flat plate collector system, climate control is achieved to an important extent by careful siting, by relient openings, by a range of passive techniques that the architect has sensibly exploited.

The two largest spaces, the living room and weaving studio, face north toward the mountain view. The remaining spaces step downward to the south and admit the low winter sun through clerestory windows. Openings oppose each other wherever possible so that the prevailing breezes up and down the mountainside sweep the house. The design employs evaporative cooling, using the same fans that move air over the solar heated hot water coils in winter.

The exterior walls are constructed of reinforced concrete block. The concrete beams are site-cast and tinged with a sand-colored additive to match the spectrum of desert hues. The additive also creates a rich contrast with the white-painted interior surfaces. Color is used rather sparingly on other surfaces to maximize the visual impact of Indian rugs, baskets and other regional artifacts.

It is a house with a large number of spaces, some of them sharply confined and most carefully modulated by changes in floor or ceiling height. Walled-in courts give the plan an exploded feeling but serve important climatic and functional ends as well.

The whiteness of the house and its sharp-edged rectangularity give a precise, planar character to the design, a character that contrasts effectively with the softly eroded forms of the surrounding landscape.

Architect: Judith Chafee
317 North Court Avenue
Tucson, Arizona

Engineers: Holben & Martin (structural)
Hlein-Kingston (electrical)

Contractor: James L. Hamilton

Photographer: Glen Allison
One of several unexpected features in this house is the combination stair/bookcase that leads up to a small study overlooking the weaving studio (photos at right). The thick oak treads protect ascending rows of books while keeping the upper rows in reach without the aid of a library ladder. The plan at right locates the stair/bookcase just off the main entry.
The primary sources for heating in this house are solar gain through the large, south-facing openings and a wood stove in the living room. Hot water is provided by the active system of roof collectors that are linked to a 500-gallon watertank. This storage tank also furnish heat to the house by means of a duct coil.

Private residence
Westford, Massachusetts
Massdesign, Inc., Architects

An apple orchard in a 200-year-old New England farming community is the setting for this energy-conscious house for a couple who needed living space for themselves and for occasional use by visiting children. Of maximum importance to the owners was the elimination of all conventional heating systems, a decision that shaped the final design down to the smallest detail.

The main first floor living spaces open to the south and back up against a tightly-clad north-facing core that includes bath, storage and stairs to the second floor guest quarters. Under the hip-roofed ends of the structure are double-height living and sleeping spaces. They are linked by a tall narrow circulation space that expands into a greenhouse on the south side and into a small kitchen on the north.

The sloping roof is cut back at the greenhouse, is fitted with flat plate collectors for domestic hot water, and is opened with small skylights that bring daylight through shuttered windows into the upper portions of the house.

The simple wood frame is constructed using 2-x-6-inch studs insulated with foam. Windows are triple glazed on three exposures, double glazed to the south. Floor surfaces that receive significant amounts of sunlight are finished in dark quarry tile over an insulated slab. These materials and building techniques all provide important environmental controls that ensure comfort at every season.

Architects: Massdesign, Inc.
138 Mt. Auburn Street
Cambridge, Massachusetts

Project designer: Mollie B. Moran
Gordon F. Tully, solar systems
Tudor C. Ingensol, partner-in-charge

Engineers: Souza & True (structural)

Contractor: Architectural Designers & Builders
Photographer: Steve Rosenthal
Osmon residence  
Carefree, Arizona  
Fred Linn Osmon, Architect

Osmon's own house is located in the badlands of southwest Arizona. The design is an investigation of the relationship between house and desert as well as a series of comments, some of them whimsical, others mildly reproachful, on the nature of that relationship. The painted plywood flowers and rocks, for instance, are a delicious mock-defiant gesture but add unexpected and welcome color on the approach to the house. A more laconic comment is the placement and treatment of the condenser unit (photos bottom right). Painted bright blue and made a feature on the terrace, the condenser is a surrender-with-style to desert reality—and perhaps a reproof to those who think that living comfortably with daytime temperatures of 120 degrees is simply a matter of manipulating a few simple, native devices. It is not, as Osmon will tell you, quite as easy as that.

The house is built in masonry and redwood, one of the few woods that stands up well in this climate. Though not large, the interiors feel ample, even spacious. The sloped ceiling adds height at one side and the curves at soffit, at the fireplace, and at the kitchen counters add considerable visual interest. The long curve is reflected on the east elevation of the house where the gentle arc gives just a suggestion of enclosure without interrupting the 180-degree view from the terrace. The retaining wall undulates playfully to echo the distant mountains and supports a simple overhead trellis also of redwood.

With a freestanding arch to mark and dignify its approach but with no front door to signal arrival, the Osmon house states its designer's priorities in often unexpected fashion. But behind this playfulness, it is a house extremely well suited to its beautiful but somewhat inhospitable environment and to the functional requirements placed on it by its architect/owner.

Architect: Fred Linn Osmon  
Box 1454  
Carefree, Arizona  
Engineer: Yuri Shekhtal (structural)  
Photographer: Joshua Freiwald
The living/dining space (photos left) serves as a buffer between the three bedrooms to the north and the guest quarters and carport to the south. All spaces are linked by a long, single-loaded corridor (photo above.)
APARTMENTS OF THE YEAR:

The six multi-family projects that follow offer attractive alternatives to "empty-nesters," to potential second home owners, or to others whose space needs may have been sharply reduced but who still want many of the pleasures of ownership without quite so many of the attendant responsibilities. Like the houses, they have been selected for the amenities they provide, the accommodation they have made with their sites, and the skill that has gone into their design.

Loon Mountain (pages 124-126) is a freshly established recreational community that offers potential purchasers fine slopes for skiing, trails for horseback riding, pools, shops and expansive amenities for outdoor activities of nearly every kind. Highland Park Apartments (pages 118-119), by contrast, is a tightly disciplined, urban solution to housing for the elderly. Its design virtues, if less obvious, are no less appreciated by senior citizens whose lifestyles are less energetic but whose needs and interests are as broad and compelling as ever.

All six projects are designs of quality in a building type that has been scanty too often in the past and is only recently starting to get the kind of attention from architects that is long overdue.

Each of the firms represented in this issue by apartments is a firm with an established reputation for designing fine houses. It is no accident, therefore, that many of the characteristics of private house design carry over, or that the same exacting architectural standards have been vigorously applied.
Bellefield Park
Bellevue, Washington
Mithun Associates, Architects

Preserving the natural environment by building as topography, vegetation and drainage patterns seemed to dictate, the architects have created 4.4 units per acre of condominium housing that gives the impression that the surroundings remain completely undisturbed. The fact is, of course, that the setting has been considerably altered by lawns, paths, and a widening of the existing stream, but these changes are carried out with such a gentle touch that they seem to enhance rather than subvert the natural order. Waterfowl, for instance, now settle into the ponds more frequently than before.

Vehicular circulation and parking areas do not intrude into the park setting. They are kept at the perimeter of the plan where they serve as a visual buffer between Bellevue and adjacent residential communities.

All the units are planned on either one or two levels. All have two bedrooms and vary in size from 1,100 to 1,200 square feet.

The selection of construction and finish materials reflects regional preferences, availability and cost. Cedar is used for exterior siding and for roof shakes. Windows are insulating glass in aluminum frames. Flooring is oak parquet with selective use of carpet.

Bellefield Park gives every outward indication of being a fine place to live. The architects have kept its massing simple, its detailing no-nonsense, its setting responsive to the functional and esthetic needs of its users.

Architects: The Mithun Associates
2000 112 Avenue, N.E.
Bellevue, Washington

Project architect: Don Dorman
Owner: Ron Levy
Engineers: Jerry Torrence (structural)
Earth Resources (soils)
Contractor: Chuck Strauss Inc.
Photographer: Art Hupi
Heaton Court Housing
Stockbridge, Massachusetts
Goody, Clancy & Associates, Architects

This 50-unit housing community for the elderly, located on a site formerly occupied by a rambling resort hotel, is clustered about a landscaped courtyard and surrounded by dense woods. The traditionally shaped, pitched-roof units are linked by continuous porches and galleries that provide covered passages throughout the complex and, in the nice kind of gesture architecture can sometimes make, remind residents of the social porches of the old hotel.

Most of the units are one-bedroom with living spaces facing the gallery, sleeping space turned to the more private rear porch. Parking is provided on the uphill side (see section) and pedestrian bridges provide access at the intermediate level—a device that sharply limits the amount of stair climbing required of both residents and visitors. Further downslope, where residents may wish to stroll, the architects have provided traversing paths that keep the incline to about 1 on 18. Benches and resting spots are provided enroute.

The architects placed the three-story buildings on the north (or uphill) side and kept the single-story structures on the south so that the sun could penetrate the court as fully as possible. This solution also provides the best unobstructed views toward the Berkshire Mountains.

The structure at Heaton Court is standard wood framing finished in cedar clapboard. The gallery areas are surfaced in an all-weather roof deck chosen for its ability to withstand heavy foot traffic and remain waterproof and slip resistant.

Architects: Goody, Clancy & Associates
334 Boylston Street
Boston, Massachusetts
Owner: Stockbridge Housing Authority
Engineers: Souza & True (structural)
Reardon & Turner (mechanical)
Consultant on the elderly: Steve Demos
Contractor: George E. Emerson, Inc.
Photographer: Clemens Kalischer
Highland Park Apartments
Highland Park, Illinois
Booth Nagle & Hartray, Architects

An elderly-housing program, a not-for-profit client, a stringent $28 per square foot budget: all the ingredients, in fact, that have so often in the past led to callous, institutionalized building. Though they were all present, they led in this instance to something quite different—to an elegant, decidedly non-institutional block of 68 townhouses that respects the scale of its street and neighbors while offering its occupants a pleasant and welcome range of amenities.

The units are constructed using oversized brick, precast concrete plank floors and masonry bearing walls, materials selected for their soundproofing as well as their economic advantages. Though the floor plans are repetitive, the facade is varied to provide a projecting bay window at the intermediate level for views up and down the street.

The interiors were designed to the needs of the elderly with central elevators, comparatively short corridors, recessed doors, easy-to-maintain finishes and a central commons area off a sunken garden at the sidewalk. A small community room (photo right) and a manager's apartment complete the plan.

The site is a lightly treed parcel at the end of a busy shopping street in a Chicago suburb. In this context, with its height limitations, its setback requirements and its restrictive program, Booth Nagle & Hartray—together with their clients—have succeeded admirably where others before them have too often failed.

Architects: Booth Nagle & Hartray
230 East Ohio Street
Chicago, Illinois

Owners: City of Highland Park

Engineers:

Wiesinger Holland (structural
Wallace-Wagstaff & Drucker (mechanical)

Contractor: L.W. Corigan Co.

Photographer: Philip Turner
Physical security was a significant factor in the design of this townhouse complex. Access to the units in each development phase is through a single checkpoint that has direct communications with each unit as well as with the security control center.
Hudson on Memorial
Houston, Texas
Kaplan/McLaughlin/Diaz
Architects

On a gently-contoured, wooded site outside Houston, a site that had formerly been a campsite for Boy Scouts and a site that deserved sensitive development, the architects have completed Phases One and Two of a projected 800-townhouse planned unit development. The 146 units in the first two phases are aimed at a particular market group: "empty nesters" whose children have grown up and moved away. In spite of this, the units are comparatively large and generously proportioned. All are either two-, three-, or four-bedroom designs of 2,300 to 3,200 square feet. To furnish maximum light and openness, all are planned with a double height atrium space between the living areas and the bedrooms. By this device, daylight is admitted through clerestories deep into the interiors.

Openness, in fact, was a prime concern of architects and site planners from the start. The units are clustered in a relaxed pattern and linked by sinuous, informal trails and walkways all enriched by landscaping and augmented with attractive benches. The "pull" along these pathways, the invitation to stroll, to pause, to linger, to stroll some more is almost irresistible.

The houses are massed with shed roofs facing the street so that their apparent bulk is visually diminished. The architect describes the vocabulary of brick veneer, wood boards and shingle as "a blend of California contemporary design with traditional forms that evolves into something both new and old, but not regional or specifically derivative of any familiar style."

Architects: Kaplan/McLaughlin/Diaz
222 Vallejo Street
San Francisco, California
Peter Gordon, designer

Associate architects:
Langwith, Wilson, King and House
Developers: Christiana Southwest
Engineers: Al Epps (structural)
Conditioned Air (mechanical)
Stacey (electrical)

Graphics: Kuest Corporation
Contractor: Christiana Southwest
Photographer: Joshua Freiwald
Sea Gardens
Atlantic Beach, Florida
William Morgan, Architect

William Morgan’s design for these fifteen townhouses is exceptional because the developer-commissioned buildings are not only straightforward and sensitively appropriate (indeed, have many of the characteristics of his custom houses) but because of their unusually sympathetic and innovative site planning. In a market that has not always placed much emphasis on design quality, these units are boldly sculptural and at the same time blend with the undisturbed natural setting.

Typically, there are three bedrooms in each 1500 square-foot unit. The second-floor bedroom overlooks the living room, separated only by a balcony railing. The third bedroom occupies a crow’s nest position in a third-level loft.

To keep construction costs down, the wood-frame structures are repetitive, although the square plans have been turned and flopped to provide variety. Accordingly, units are either arranged in a staggered line or in pinwheel fashion, and the units nearest the beach are raised for views.

But the greatest interest is generated by Morgan’s sensitive site plan. Despite the formal, almost urban massing, the plan preserves much of the site’s original character—including major trees and most importantly the dune separating the buildings from the ocean beach. Resisting the unfortunate common practice of leveling these dunes to provide views, Morgan instead chose to accentuate the contained-in-a-forest quality of the site and to provide common access for all units over the dune. And by such use of the beach frontage, Morgan has opened the way to a future expansion of equally desirable units across the main road.

Architects: William Morgan Architects
220 East Forsyth Street
Jacksonville, Florida

Structural engineers:
Haley Kelstel Associates, Inc.

Mechanical and electrical:
Roy Turknett Engineers

Contractor: Demetree Industries, Inc.
Photographer: Otto Saltz
Village at Loon Mountain
Lincoln, New Hampshire
Huygens and Tappé,
Architects

On this 800-acre parcel that faces the Loon Mountain Ski area in the White Mountains, the architects have completed the first phase of development that includes 200 hillside townhouses grouped around an attractive Village Center. The Center is a pedestrian shopping/recreation street complete with restaurant, grocery stores, skating rink, swimming pool (photo below) and indoor-outdoor tennis facilities. Up from the Center, along the flanks of the mountainside, are 1-, 2-, and 3-bedroom condominiums clustered as topographical conditions dictated in groupings of various sizes. Each cluster is sited so as to disturb the terrain as little as possible. Close-in trees, as the photo at right indicates, were retained and the natural vegetation of the earth floor was left as is. These things, together with an active but unassuming massing and choice of finishes, produces about as gentle an intrusion as any architecture can make into a forest setting while still providing a full array of domestic amenities.

The floor plans of individual units vary by type, but all are arranged in a lively series of half levels keying to the slope of the site. Living, dining, and kitchen spaces typically occupy the intermediate level with master bedroom and sleeping loft a half level below and above respectively. The entry, which leads to the split level stair, is designed and outfitted as a ski storage space.

The delight of this project is in the site relationships and in the manner in which the architects have responded to them. Without noticeable sacrifice to environmental values, this community offers superb access to some of the best and least developed recreational lands in the Northeast.

Architects: Huygens and Tappé, Inc.
462 Boylston Street
Boston, Massachusetts
Frances Di Meola, partner-in-charge
Developer: Merrill, Eaton, Keating
Site planning: Sasaki, Walker, Roberts
Engineer: Skeco Engineering Corp. (structural)
Contractor: Martin Carrier
Photographer: Steve Rosenthal
The pool complex, at left, is a portion of the Village Center—a Center that is being built in stages to correspond with the over-all growth of this recreational community. What is emphasized by these designs is the impression of "village" rather than development.
The townhouses are of wood frame construction with rough-sawn, shiplapped pine siding on exterior walls and spruce clapboards on balcony parapets. Metal roofing has a bronze-colored, baked enamel finish. Inside, floors are carpeted except for sheet vinyl in kitchen and bathrooms, and 4-by 6-in. wood blocks with end cut exposed in the entry ski rooms. All units have fireplaces and electric heating.

HUYGENS AND TAPPE, INC.
Montgomery Moves People at the Government of Canada Building, Toronto

Floors 6-PH 6e étage-PH

Twelve high speed elevators, divided into low and high rise groups, and two efficient escalators, move people in this innovative, energy-saving building. The architects’ intent, to provide an inviting space for both visitors and workers, is carried out with greenery, works of art, and color.

The colorful elevator cars, with floors tiled in glazed brick, compliment the brickwork in the two story entrance lobby.

A Montgomery Preventive Maintenance Program will assure uninterrupted service and long equipment life.

Call your Montgomery representative for design, construction, installation and service information. You’ll find his number in the Yellow Pages.

montgomery
ELEVATORS/ESCALATORS POWER WALKS & RAMPS
MONTGOMERY ELEVATOR COMPANY, Moline, Illinois 61265 MONTGOMERY ELEVATOR COMPANY LIMITED, TORONTO, ONTARIO M6J 3S5 OFFICES IN PRINCIPAL CITIES OF NORTH AMERICA.

montgomery moves people

Circle 33 on inquiry card
Three distinguished lighting designs

**TABLE LAMP** / A classic design look, this lamp emphasizes vertical and horizontal lines by using three slim vertical columns supporting a large rectangular white linen shade. The total height is 43½-in., and the base comes in polished chrome or brass. • Koch + Lowy, Inc., Long Island City, New York.

circle 300 on inquiry card

**DESK LAMP** / A new addition to the company’s Milano collection, called “Tavolo,” this desk lamp has a large circular black-finished base with a chrome rod, topped by a directional metal reflector in black or white. While simply designed, its sturdy nature is easily adaptable for residential or commercial uses. • Koch + Lowy, Inc., Long Island City, New York.

circle 301 on inquiry card

**PETAL LAMP** / In a unique design for a floor lamp, a 60-in.-high stand is topped by acrylic leaves which partially shade and balance light patterns. These petals may be rearranged into an up position for more dramatic lighting effects. The stem is available in black or chrome. • Koch + Lowy, Inc., Long Island City, New York.

circle 302 on inquiry card

Dryvit System

Learn Why It Makes Sense!

1. First a rigid panel of Expanded Polystyrene that offers optimum insulating qualities. It becomes the foundation of any “U” value that is required to really control heating and cooling costs.

2. Our specially woven and treated Fiberglass Fabric that prevents surface cracking and that's important — no cracks mean no leaks or maintenance.

3. Our special Primus/Adhesive, a unique plaster material mixed with Type I Portland Cement to adhere Dryvit Insulation Board to the back-up surface and to embed Dryvit Reinforcing Fabric on the face of the board.

4. Dryvit Finish: a synthetic plaster material having high bond strength, extremely pleasing in appearance in a choice of 14 integral colors and various textures. It provides a water resistant, jointless exterior that is maintenance free.

Lightweight is Important
Only 7½ pounds per square foot, so you can reduce your steel usage substantially. Thinner walls also increase useable floor space.

Dryvit System, Inc.
Warwick, RI—Tulsa, OK

Circle 34 on inquiry card
At Dryvit We Speak A Rare Language...

OUTSULATION™

Out-suitable (n)
1: placing insulation on the exterior of the wall.
2: eliminating all thermal bridges. 3: the wall structure itself goes inside the building.

Frankly, the world needed this new word. The phrase "energy savings" has become so abused it is almost hackneyed. From a pup tent to a light bulb, its credibility is being challenged.

On the other hand, DRYVIT has been used as the exterior wall and insulation system on hundreds of projects in the last decade. From 42-story prestige hi-rises, like the Tiara condominium above, to office buildings, sporting arenas, shopping centers, hospitals, schools and more. The actual energy dollars saved with the DRYVIT "Outsuitation" System was much greater than design calculations projected (applying conventional heat loss calculations—R values and U factors).

DRYVIT places insulation on the outside of the structure, the most efficient placement for all building construction.

Thermal bridges are eliminated and the insulation value of the DRYVIT System is constant...unaffected by changes in temperature and moisture.

Make us prove it. We have meaningful case histories on all types of new construction and retrofit. Write or call stating your application.

dryvit SYSTEM INC.

420 Lincoln Avenue, Warwick, RI 02888 (401) 463-7150 Plant Locations: Warwick, RI and Tulsa, Oklahoma

Circle 34 on inquiry card
LEVOOLOR CONTROLS THE SUN

LEVOOLOR® BLINDS
Riviera/Galaxy™

Practical is an important part of being beautiful, especially in this day and age. That's why the window blinds you prefer to specify for their looks, are also the ones that can work hard to conserve energy. Levolor Riviera, and Galaxy Sun Controller Blinds. For complete specifications write for the new edition of Levolor’s Architects’ Manual.

Levolor Lorentzen, Inc.
720 Monroe St.
Hoboken, N.J. 07030
Circle 35 on inquiry card
CUSTOM CARPETS / Wilton carpets woven of wool, wool blends, and acrylic/nylon fibers are shown in a color brochure. Explaining the special weaving services offered, the literature depicts 68 different patterns, examples of the almost unlimited design capability. ■ Pennsylvania Carpet Mills, Inc., Philadelphia.

WOOD WINDOWS / Several exclusive features of removable R.O.W.-double-hung residential windows and how they can reduce heating and cooling costs are covered in a color brochure. Windows are shown in various combinations to achieve the desired architectural effect. ■ R.O.W. Sales Co., Ferndale, Mich.

WOODWORK PRODUCTS / A 96-page color catalog contains photographs, detail drawings and complete technical and descriptive information about Ideal decorative doors, glide-and-fold doors, Colonial entrances, mantels, shelves, windows, and many other millwork items. ■ Ideal Co., Waco, Tex.

KITCHEN IDEAS / Versatile kitchen layouts shown in detail drawings illustrate many applications of "Long-Bell" cabinets. Convenience features include pullout chopping blocks, fruit and vegetable racks, and pantry units. ■ International Paper Co., Cabinet Div., Portland, Ore.

HARDWOOD FLOORING / Brochure describes a line of hardwood flooring that includes both contract floors in exotic species and prefinished parquet for do-it-yourself installation. Many patterns, wood species, textures, scale and mixed-media floors are shown. ■ Kentucky Wood Floors, Inc., Louisville.

ENERGY-SAVING WINDOWS / "The Window Book" covers the subject from history to anatomy to window problems: condensation, drafts, and conduction heat loss. Storm and replacement windows and their contribution towards lowering energy costs are discussed. "The Window Book," written for the homeowner, may be ordered for $2.00 from Season-all Industries, Inc., Indiana, Pa.

PERIOD HARDWARE / Solid brass commercial and residential lighting fixtures manufactured to order within days are described in a hardware and builders supply catalog. Other items include period-style reproductions of hardware, lighting, and millwork, many made with the original molds and tools. The catalog is intended primarily for those involved in renovation work, or wanting authentic hardware, lamps, hand-made window panes, Victorian decorative shingles, etc. Mail-order catalogs, updated every six months, are available for $1.25 from The Renovator’s Supply, 71 Northfield Rd., Millers Falls, Mass. 01349.

RESIDENTIAL WIRING / Electrical products for the home are shown in an eight-page catalog. Wiring devices include switches, dimmers, receptacles, range and dryer units, and porcelain lampholders. ■ General Electric Co., Scotia, N.Y.

SOLAR BIBLIOGRAPHY / This booklet describes illustrated solar energy books written for engineers, contractors, and homeowners. Based on practical information developed by this solar system manufacturer, but covering a range of products, titles include “Design Manual for Solar Water Heaters,” “Estimating Energy Available for Collection,” and “Solar Pool Heaters.” ■ Horizon Industries, North Hollywood, Calif.

REMODELING TIPS / Western red cedar used inside and out to update restaurants, homes and offices is the subject of a six-page idea booklet. Board-and-batten siding, cedar decks, and knotty cedar paneling are shown in application photos. ■ Western Red Cedar Lumber Assn., Portland, Ore.

Naturally beautiful wood...

Cabot’s STAINS

Here is wood at its wonderful best. Cabot’s Stains, so easy to apply, accent the grain, protect and beautify in a choice of 87 unique colors. Stains enhance the natural beauty of wood, are readily applicable to all surfaces: textured, smooth, or striated. A stained surface grows old gracefully, never cracks, peels, or blisters. Today the trend is toward stains... Cabot’s Stains.

Samuel Cabot Inc.
One Union St., Dept. 509
Boston, Massachusetts 02108
□ Send color card on Cabot’s Stains.
□ Please send Cabot handbook on stains.
steel lockers

You get the quality design features which have made Lyon the leader in steel lockers. All-welded frame, positive locking action, heavy-duty hinges, chrome finger-tip handle. In Dove Gray, Seashore Green, Desert Sand enamel. Single, double, or multiple tier. Expanded metal lockers also available.

Write for free catalog.
LYON METAL PRODUCTS, INC.
571 Monroe Avenue
Aurora, Illinois 60507

NATURAL FABRICS / Cotton, silk and linen fibers, alone or in combination, are used extensively in the Cross-Climie residential and contract fabric collection. The abrasion-resistant textiles, such as the "Gloria-tar" textured weave pictured, are suitable for window treatments, upholstery applications, etc. • Gretchen Bellinger Inc., New York City.

circle 306 on inquiry card

ROOM DIVIDERS / "Carlon" rolling screens are suspended ⅛-in. above the floor; a concealed nonsway bottom guide aligns the panels without damage to the floor covering. Panels roll on nylon wheels mounted within the hanging track; no wheels or bolts are visible. The Shoji-style screen is shown; carved wood grille and other cedar-framed models are available, offered in standard and custom finishes. • Ohline Corp., Gardena, Calif.

circle 303 on inquiry card

PEDESTRIAN BRIDGES

You can get the quality design features which have made Lyon the leader in steel lockers. All-welded frame, positive locking action, heavy-duty hinges, chrome finger-tip handle. In Dove Gray, Seashore Green, Desert Sand enamel. Single, double, or multiple tier. Expanded metal lockers also available.

Write for free catalog.
LYON METAL PRODUCTS, INC.
571 Monroe Avenue
Aurora, Illinois 60507

PVC WINDOW FRAMES / Extruded polyvinylchloride window frames are guaranteed maintenance-free for 20 years; they exceed current standards for air- and water-infiltration. Chambered construction provides strength and rigidity as well as thermal barrier air spaces. Glazing is triple-insulated glass, with a ⅛-in. air space between panes. Casement, awning, slider and fixed-vent windows and patio doors are available in the pvc line. • Poly Co. of America, Inc., Langdon, N.D.

circle 307 on inquiry card

FIREPLACE DOORS / Fully-tempered ⅛-in.-thick glass doors with insulated wood handles are available for many Heatilator zero-clearance heat circulating woodburning fireplace units, both new and existing. The doors fit the opening closely without blocking cool air intakes. Brass, black and chrome finishes are offered. • Heatilator Fireplace Div., Vega Industries, Inc., Mt. Pleasant, Iowa.

circle 304 on inquiry card

DECORATIVE STONE / K-Lux Estate Stone is a fireproof, fiberglass-reinforced gypsum product said to give interior surfaces the sculptured appearance of hand-cut fieldstone. The ½-in.-thick pieces install with adhesive mortar; special corner stones allow a custom fit without mitering or cutting. Estate stone is offered in cool gray and warm brown shades. • K.S.H., Inc., St. Louis.

circle 305 on inquiry card

BRASS RAILINGS / Decorative or functional brass railings for commercial and residential applications are handcrafted to order from a range of standard components, including cast and machined brackets. Standard railings are 2-in. in diameter, with other sizes available on order. • Bay State Brass Rail Co., Inc., Boston.

circle 308 on inquiry card

circle 37 on inquiry card

Circle 38 on inquiry card

Circle 301 on inquiry card

Circle 302 on inquiry card
As you can see, Simpson Redwood Plywood is every bit as beautiful as redwood lumber. That's because it is redwood, real redwood. But it's plywood. So it's a lot more economical to use than lumber.

Simpson Redwood Plywood weathers beautifully. It resists surface checking and takes stain beautifully. No other wood holds a finish any better.

Redwood plywood boosts home sales too. The natural beauty of redwood automatically increases curb appeal wherever you build with it.

And you don't have to wait for Simpson Redwood Plywood. It's available now.

Why not contact your Simpson Representative now or write Simpson Timber Company, 900 Fourth Avenue, Seattle, WA, 98164.

Custom Redwood Plywood
Simpson
Redwood is a renewable resource.

Circle 39 on inquiry card
MICROWAVE OVEN/HOOD / The Spacemaker is a cabinet-mounted microwave oven that also includes the functions of a vent hood and installs easily over an electric range. The 30-in.-wide unit can also replace the range hood over any existing electric range; a separate 120v circuit is required for the oven. • General Electric Co., Louisville.

circle 309 on inquiry card

RESERVED PARKING / Designed to prevent the use of reserved tenant parking spaces by unauthorized persons, "Safepark" poles are swivel-mounted on a permanent pavement base. The solid steel pole swings down only when unlocked by the tenant's individual key. The rust- and weather-resistant poles are painted red with reflector markings, and may also be used to "lock" a car into its space to deter thieves. • Progressive Systems Co., Chicago.

circle 312 on inquiry card

MARBLE BASIN / Strong perpendicular lines accent the solid marble of this hand-carved washbasin. The polished chrome faucet set shown with the pedestal basin are part of a line of geometric architectural hardware which includes door knobs, drawer pulls, towel bars, faucets and other accessories. • Sherle Wagner International, Inc., New York City.

circle 310 on inquiry card

KITCHEN SINK / The three-basin "Epicurean" sink comes with a hard-wood cutting board to fit the central- ly-located disposal basin, and a 16-by 14-in. removable wooden drainboard which covers the right-hand sink. The larger basin measures 19- by 17- by 9½-in-deep for easy cleaning and filling of large utensils. The "Epicurean" sink is enameled cast iron, offered in 15 colors plus white. • Kohler Co., Kohler, Wis.

circle 313 on inquiry card

CERAMIC TILE / Six colors have been added to the "Primitive Encore" ceramic line, with matte-textured tiles offered in deep brown, flashed sand, bark, camel, wheat and blue shades. Tile is suitable for moderate-use residential and commercial floors and walls. Four ½-in.-thick shapes and matching trim pieces are available. • American Olean Tile Co., Lansdale, Pa.

circle 311 on inquiry card

BATH ACCESSORIES / The "Forest Woods" product line is made of solid hardwood in moisture-sealed finishes of golden oak and walnut. Included in the accessory collection are bathroom seats, medicine cabinet, 18- and 24-in. towel racks with shelves, and paper and cup holders. • Beneke Corp., Columbus, Miss.

circle 314 on inquiry card
PERMANENT FABRIC STRUCTURES...
AN IDEA WHOSE TIME HAS COME

The wide span air-supported roof on the Pontiac, Michigan Silverdome Stadium, the dramatic tensioned fabric roof of LaVerne College's Student Center in California, and the sweeping arch of a new outdoor stage at the Duval Center in Florida show how the architectural vocabulary of space and form has been enriched by permanent architectural fabric. Spatial and volumetric relationships that used to be impossible to build are now possible. The Birdair/Chemfab team has turned more of these new concepts into reality than anyone else.

Since their first appearance just five years ago, SHEERFILL® architectural fabric structures, combining the steel-like strength of fiberglass with the durability of Teflon®, have gained rapid acceptance around the world. Unlike other building materials, the SHEERFILL architectural fabric and cable network form both the structure and the finish.

Modest in initial cost, rapidly erected, exciting and dramatic in appearance, SHEERFILL architectural fabric structures are an idea whose time has come.

With over 30 years experience in weaving, coating, patterning, fabrication, and erection of fabric structures, the Birdair/Chemfab team offers you a single source of highly skilled assistance that is unmatched in the world.

A new full color, 16-page brochure outlining the design parameters for air-supported and tensioned permanent fabric structures is yours for the asking. If you're considering the excitement of fabric for a structure, or just want some solid information, write or phone for your copy.

BIRDdAIR/CHEmFAB
PIONEERS IN PERMANENT ARCHITECTURAL FABRIC STRUCTURES AND TECHNOLOGY
2015 Walden Avenue, Buffalo, New York 14225 Phone 716/684-9500
Circle 41 on inquiry card
Explore inner and outer space.

Everywhere you turn today, the natural look is in. That’s why more and more designers, builders, and homeowners are turning to the natural beauty of Inland Red Cedar for the look they’re after. Incredibly durable, with excellent weathering qualities, klin-dried Potlatch Inland Red Cedar offers a continuing reward for those who choose it. For siding, Paneling, Fascia, Trim.

Next time you’re thinking of building... think cedar... Potlatch Inland Red Cedar. Your regular supplier will be happy to help you to explore the possibilities.

Potlatch Corporation, Wood Products, Western Division
P.O. Box 5414, Spokane, WA 99205 (509) 456-4280

We grow the wood that works. For you.
Take your walls back to nature.

Create a natural environment with CrofterCraft imported natural fiber wall coverings. Choose from authentic natural textures like pure Belgian linen. Rich, elegant wall coverings with a flame spread rating of 25 or under, a fuel contribution rating of 10 or under, a smoke density rating of 0. ASTM E8470 Flame Spread Test.

For a list of distributors write to:

CrofterCraft
104 West 40th Street
New York, N.Y. 10018
(212) 868-6548
When you reach for the stars, it takes more than vision. It takes revision.

In exploring the vast reaches of space, there's no room for error. So you have to work out all the bugs in advance.

That's why it's reassuring to lay your plans for any exacting project with the help of Bruning's full line of drafting intermediates.

Bruning's Optirase™ erasable sepia, for example, assures clear, crisp reproduction—even after countless erasures and revisions. And because it's 100% rag, translucent paper, your visions and revisions come through looking their best.

There's lots more, of course. Bruning has a full line of top-quality engineering reproduction equipment and supplies.

For more information, call your nearby AM Sales Office. Or write AM Bruning, Dept. E, 1834 Walden Office Square, Schaumburg, IL 60196.

We help bring your vision to life.
Ludowici-Celadon offers clay roof tile in more shapes, sizes, textures and colors than any other company in the world.

The unique variety of our clay tiles is highly adaptable to many different building applications. We are experiencing a renaissance for clay roofs. There is a revival of this durable roofing material among architects and builders across the country. They recognize the value of the Ludowici roof system in which vitrified clay tile is a lasting armor against sun, snow, wind and rain...defying not only temperature but decay and erosion.

Owners can enjoy both versatile service and significant energy savings for their constructions with our products.

We are proud to produce for discriminating architects, builders, and owners a timeless product, a masterful variety of tiles for traditional, modern and innovative architecture.

Create a masterpiece. An architectural expression that is succinctly individual and one that will defy the passage of time.

For further information, write or call:

LUDOWICI-CELADON
Division of CSC, Incorporated
201 North Talman
Chicago, Ill. 60612 • (312) 722-7700

Circle 45 on inquiry card
HOW TO PAINT A BUILDING BEFORE YOU BUILD IT:

The secret is factory-coated metal — and PPG coatings.

Paint first and build later — that's the secret of some of the most striking buildings going up these days. Because they use the drama and durability of colorful PPG coatings on factory-finished metal.

Big components or small, parts of buildings or entire buildings, factory finishing will give you benefits every building should have. A better finish applied under controlled conditions. A thermoset finish that is cured at the factory instead of on-site for better bonding to the substrate. Plus more variety in color choices. And better color uniformity.

What kind of finish can you get? The most durable finish available to meet your specific requirements. Because PPG has more experience with more types of coatings than anyone else in the business.

For more detailed performance specs, write to: PPG Industries, Inc., Color Coatings, Dept. 16W, One Gateway Center, Pittsburgh, PA 15222.

PPG: a Concern for the Future
PRODUCTS FOR THE HOUSE continued from page 134

Wireless Security System / This radio-controlled residential and commercial alarm system installs without any wiring; all remote accessories and wireless transmitters operate on batteries. Said to be economically priced, the set includes a control unit with built-in sirens; UL-listed low-voltage transformer; switches; and enough door and window contact sets to protect the average home against intrusion. Options include external alarms and a telephone dialer. • Tel-Sonic Corp., Pompano Beach, Fla.

Bath Fittings / The “Innovia” series of tub and basin fittings are part of the “Gallery Collection” of contemporary plumbing ware and accessories. “Innovia” faucets and spouts feature all-brass construction, with sculptured metal and lucite handles. • Eljer Plumbingware, Wallace Murray Corp., Pittsburgh.

Roofing Shingles / The Celotex asphalt roofing shingle is now constructed with a fiberglass mat instead of cellulose fiber. This use of fiberglass is said to provide superior fire protection and longer roof life. The residential shingle is available in 10 colors. • Celotex Corp., Tampa, Fla.

Wallboard Clip / Galvanized steel “Prest-On Clip II” supports wallboard at exterior and partition corners, and at ceiling intersections. Said to significantly reduce wallboard installation costs. • Prest-On Clip Co., Conla Corp., Libertyville, Ill.

Granite.
Not-so-pedestrian plazas for pedestrians.

Bath Fixtures / Pedestal sinks, bidets, and lavatories by Cesame of Italy are now available in stock in this country. The contemporary fixtures are manufactured of high-fired molded vitreous china in six different styles and 10 colors. • Europa Bath Boutique Inc., Chicago.

Insulating Sheathing / Aluma-Sheet is a water- and weather-resistant laminated fiber board with reflective aluminum foil on both sides. A structural-grade sheathing, it may be used with wood, steel, vinyl, aluminum, or asbestos cement siding; stucco or brick veneer. Maximum lateral load is 5400 lbs. Aluma-Sheet is approved for use without corner or let-in bracing, and needs no building paper. • Denny Corp. Caldwell, Ohio.

Granite is the elite paving material for plazas, walkways and mall areas where a combination of beauty, durability and ease of maintenance is required. Granite is a natural building material and it naturally complements the landscaping portions of your architectural design. A wide selection of features including fountains and seating areas are available to enhance the overall appearance of your project. For more information, plus a packet of full color literature illustrating our products in use, call toll free 800-328-7038. In Minnesota, call (612) 565-0621 or write to the address below.

Cold Spring Granite Company, Dept. 46 on inquiry card

Circle 318 on inquiry card

Circle 319 on inquiry card

Circle 320 on inquiry card

Circle 315 on inquiry card

Circle 316 on inquiry card

Circle 317 on inquiry card

Circle 317 on inquiry card

Circle 317 on inquiry card

Circle 317 on inquiry card

ARCHITECTURAL RECORD HOUSES OF 1979 141
ARCHITECTURAL RECORD announces a two-day seminar for architects, interior designers and owners on...

DESIGN TRENDS & TECHNIQUES FOR CONTEMPORARY OFFICE INTERIORS

Deere West, Deere & Company Administrative Center, Moline, Ill. Architects: Kevin Roche, John Dinkeloo & Associates.

July 30–31, 1979 San Francisco
September 10–11, 1979 Chicago
October 8–9, 1979 New York

Specifically, you'll learn:

THE PROGRAMMING PROCESS
Determining Project Feasibility
■ Evaluating present space
■ Evaluating future goals (space, esthetics, finance)

Attendees successfully completing this seminar will be awarded 1.4 Continuing Education Units and a certificate of completion.
Evaluating space alternatives
Determining Organizational Needs
- Furniture and equipment inventory
- Department head interviews
- Additional facilities
Determining Personnel & Operational Needs
- Paper management
- Supplies
- Data processing, communications
- Security
- Environmental considerations
- Sociological considerations
Determining Space Use
- Fitting space needs to current management techniques
- Space standards
- Predicting growth
- Planning for flexibility
Gathering Information
- Survey and interview techniques
- Observation
- Using worksheets
Project Implementation Strategy
- Staffing
- Planning and using the budget
- The move
Client Relations
- How large organizations select design consultants
- The preliminary report (summarizing program analysis for the client)
- Reviewing the data with the client
THE SPACE DESIGN PROCESS
Turning Program Data into Design
- Allocating space
- Paper flow & storage
- Changing office technology & equipment (including word processing)
- Power & communications
- Security considerations
Circulation
- Barrier-free design & life safety
- Behavioral studies (light, crowding, color, texture)
Designing Support Facilities
- Reception rooms
- Conference & meeting rooms
- Storage & distribution
- Data processing
Evaluating Furniture & Carpentry
Evaluating Current Office Design Trends & Practices (including the open office)
ENERGY CONSERVATION TECHNIQUES (PLUS COSTS/BENEFITS)
Components of Energy Use
- Lighting
- Office machines
- Heating & cooling
- Others (elevators, hot water, fans, pumps)
Lighting & daylighting
- Diffuse perimeter daylighting
- Beam daylighting
- High frequency fluorescent lighting
- Task/ambient lighting
Glazing treatments
- Thermal barriers
- Dual mode shading
- Retrofit interior glazing
- Solar tint films
Space planning & energy use
- Evaluating, designing walls, partitions
- Partitions with integral task/ambient lighting
- Work station densities
- Delivering services (lighting, communications, word/data processing)
- Work station layouts & flexibility (impact on energy use costs)
SELLING OFFICE ENERGY CONSERVATION STRATEGIES
Energy analysis programs
Cost/benefit analysis programs
Tax implications

Ranking & selecting energy conservation strategies
Presenting cost-effective energy conservation strategies to clients

Your instructors
Michael Sapnker pioneered the establishment of space planning and office design as a business service. In 1946, he founded the space planning and design firm of Michael Sapnker Associates, Inc., which subsequently became Sapnker, Lerner, Schindler, Inc. in 1962. He remained head of this firm until he sold it to Litton Industries in 1969. The Sapnker firm has done pre-architectural planning, programming and office design for such corporations as Gulf Oil, Sears Roebuck, and John Hancock. In 1974, Mr. Sapnker resigned from the firm to become a facilities planning consultant in New York City. He is the author of two books on space planning published by McGraw-Hill ("Office Planning and Design" and "Planning the New Office"). He has been a consultant to the National Bureau of Standards, and is a Fellow of the American Society of Interior Designers.

Lila Shoshkes heads her own design and consultation firm, Lila Shoshkes Design Associates, in Millburn, New Jersey, specializing in corporate and institutional interior design and space planning. She is consultant to several architectural firms, and a noted author of books that have become standard reference texts for students of architecture and interior design.

She is the author of "Space Planning, Designing the Office Environment" (Architectural Record), and "Contract Carpentry, A Critical Guide to Specifications and Performance" (Watson-Guptill). Formerly associated with ISD in New York, and The Grad Partnership, her clients have included AT&T, Massachusetts General Hospital, and the State University of New York at Buffalo. Her recent projects have included the U.S. Coast Guard at Governors Island, the West Orange (N.J.) Public Library, Newark Public Health Services building, and interior design and planning for many private corporations. She is a member of the Institute of Business Designers (IBD).

Tyrone Pike is an architect with the Ehrenkrantz Group, New York City, where he managed the Energy Efficient Office Building Interiors Cost-Benefit Study for the U.S. Department of Energy Solar Management Support contract. His current work in that regard involves simulating the energy usage in buildings with the computer program. CALERIDA. Prior to joining The Ehrenkrantz Group, he served as project manager/architectural engineer on special projects at Dubin-Bloom Associates, P.C. Mr. Pike is a member of ASHRAE, and holds a Bachelor of Architecture degree, Princeton University.

Return to:
ARCHITECTURAL RECORD SEMINARS
McGraw-Hill, Inc., 1221 Avenue of the Americas
New York, NY 10020 Phone (212) 997-3088

Register me in the ARCHITECTURAL RECORD seminar checked below.

DESIGN TRENDS & TECHNIQUES FOR CONTEMPORARY OFFICE INTERIORS
☐ July 30–31, 1979  San Francisco  Fairmont Hotel
☐ September 10–11, 1979  Chicago  Water Tower Hyatt House
☐ October 8–9, 1979  New York  The Halloran House
☐ Check enclosed, payable to ARCHITECTURAL RECORD ($395)
☐ Bill me

Name
Title
Firm
Street
City  State  Zip
Phone ( )
Signature

Please check if: ☐ Architect  ☐ Engineer  ☐ Other
Your savings

Wheeling Steel Framing can cut construction costs in half.

Wheeling Steel Framing saved money on this 145,000 sq. ft., 250 occupant nursing home by permitting a lighter foundation design, rapid installation and fewer workers for field erection of walls.

In this 17-story office building, lightweight Wheeling Steel Framing was combined with brick to form a durable but inexpensive exterior wall system. This system bears its own weight and is structurally independent from the building.

To keep construction on schedule by reducing downtime during severe winter weather, Wheeling steel framed panels for this building's curtain wall were prefabricated in the building's interior.
plan.

And that's only part of the savings.

Wheeling Steel Framing comes cut to specified lengths so there's little, if any, waste.

Wheeling Steel Framing meets or surpasses the most rigid fire code requirements.

Lighter than concrete or wood, Wheeling Steel Framing is easier to erect. And its versatility gives you more design freedom.

Wheeling Steel Framing is a sturdy and rigid framing material. As a result, you can reduce the number of members normally employed in conventional framing systems.

Pre-punched holes in both joists and studs permit the installation of plumbing and electrical systems.

You specify savings when you specify Wheeling Steel Framing.

In fact, you can cut construction costs as much as 50% by having wall and floor sections prefabricated off-site ahead of your on-site erection schedule.

At construction sites of all kinds—schools, institutions, office buildings, hospitals and others—Wheeling Steel Framing is fast becoming the number one choice.

For the rest of the story, write for our brochure WC-608. You'll get all the information, load tables and other technical data you need for specification, design and construction. Write: Wheeling Corrugating Company, Division of Wheeling-Pittsburgh Steel Corporation, Dept. GC-17, Four Gateway Center, Pittsburgh PA 15230.

Wheeling Steel Framing

Circle 48 on inquiry card
You don't invite comparisons unless you're sure to win.
And with the Circa and the Quanta there's no doubt.
Because these spas offer a unique combination of design and value that make them as easy to sell as they are to install.
Unlike all other spas on the market, the Circa and the Quanta are totally self-contained units.

They arrive completely engineered, preassembled, and factory tested. With everything needed for their operation included within their own perimeters. There are no extra parts to buy, so there are no extra costs. No time lost assembling them. And no danger of mismatching.
And you don't need skilled craftsmen to install them.

To start them up, make the electrical connection and fill with a garden hose.
But, sorry competitors, our bold advances don't stop here. The illustrations at the right will point out more.
And the total system is backed by our over 20 years' experience in the design, engineering, and manufacture of quality whirlpool products.
Which should help put your customers' minds at ease as well as their bodies.
the Heirloom roof...

ColorKlad

elegance, quality, durability far beyond conventional roofs!

Wise architects, discriminating homeowners and buyers are recognizing the unique, lasting values of a roof sheathed in the beauty and permanence of ColorKlad.

A HOME MORE BEAUTIFUL WITH ColorKlad

ColorKlad prepainted sheeting has earned a solid reputation for handsome appearance, strength, durability, ease of installation and maintenance as roofing and fascia on commercial structures. Now, these same qualities, plus some additional ones, are being recognized by architects, contractors and owners for new roofs on new homes or as replacement on prestigious older homes.

Whatever the climate (rain — snow — ice — wind — sun — fire hazards), ColorKlad roofs offer protection from perils of nature that used to plague designers and homeowners using conventional roofing materials.

No wonder ColorKlad is being specified for more and more new and replacement roofs on homes being constructed by and for those who really care about lasting beauty.

ColorKlad is available in nine exciting colors, two textures. A written 20 year warranty assures color integrity. Write for our free brochure and color samples.

“ColorKlad – the heirloom roof, uniqueness for generation after generation!”

Circle 50 on inquiry card
What you see is only half the beauty of Redwood Plywood.

The natural beauty and warm, simple elegance of redwood plywood are easy to see.

But there's a good deal more to this exceptional building material than mere good looks.

A choice of grades, from luxurious heartwood to efficient, economical grades with sapwood and pin knots, means there's a grade to fit any plan. And any budget.

Redwood plywood ages handsomely. It has remarkable dimensional stability and is naturally weather- and fire-resistant. The fact is, 5/8" redwood plywood qualifies for any Class II construction on your schedule.

Redwood plywood installs with surprising ease. It resists face-checking. And is a magnificent insulator.

An easily applied water repellant will keep it looking fresh and reinforce its natural resistance to weather. And redwood takes and holds a stain or any finish like no other wood.

In 3/8" or 5/8" redwood plywood enhances inside and out.

Take a good look at redwood plywood. And see how beautiful it really is.

CALIFORNIA REDWOOD ASSOCIATION
One Lombard Street, San Francisco, CA 94111

Redwood — a renewable resource.
Circle 51 on inquiry card
SOFA / Designer Ward Bennett used the ornamentation of ancient Egypt as a reference for the "Cartouch" fully upholstered sofa. It is 85-in. long with a back height of 25-in. • Brickel Associates Inc., New York City.

BATH CABINETS / Stained-glass accents surround the plate glass mirror of the "Gaslight" cabinet, constructed with oak sides and shelf and a steel case. An oval version of the cabinet is available for surface mounting. Recessed models are also offered, for 18- or 24-in. rough wall openings. • Miami-Carey, Monroe, Ohio.

TEXTURED CARPET / Woven in Scotland in 12-ft widths, all-wool "Kalahari" carpets offer cut/loop textured berbers in five patterns and 13 natural colorways. All carpets are available in stock. Shown is the "Cayuga" pattern, based on a Tibetan motif. • Couristan, New York City.

VICTORIAN FIXTURES / Authentic reproductions of gas and electric lighting fixtures dating from the 1870's are handcrafted of solid brass. The UL-listed electric fixtures include the 1880-style chandelier illustrated, as well as wall sconces, desk lamps and electrifiers. • The Classic Illumination, Oakland, Calif.

VENTARAMA®
the plastic-domed ventilating skylight

Skylighting is the way to create beautiful light-filled rooms, to add new dimension and greater flexibility to interior and exterior designs.

VENTARAMA SKYLIGHTS OFFER PASSIVE SOLAR HEAT, NATURAL AIR CONDITIONING, and can be used in any climate on any roof.

• COPPER FLASHED • SHATTERPROOF • INSULATED DOME • SCREENING AND SUNSHADE • OPERABLE BY MANUAL, POLE, OR ELECTRIC MOTOR.

VENTARAMA® SKYLIGHT CORP
75 Channel Drive, Port Washington, New York 11050 (516) 883-5000

Circle 52 on inquiry card
Offer Clean Air In All Your Homes.

Give the home buyer more than just cool air in their new home.
Offer clean air in every home you sell.

Sure, central air conditioning cools the air in your homes. But that's only half the job. By adding a Honeywell Electronic Air Cleaner, home buyers get cleaner cool air house-wide. It removes up to 95% of the dirt, dust, smoke, pollen and other impurities from the air they'll breathe. (The typical air conditioning filter only removes 6%) It's the air conditioner's other half.

An air cleaner helps keep a new home cleaner and newer looking longer by removing microscopic airborne dirt before it creates the need for extensive cleaning and redecorating. Substantial savings in time, money and inconvenience should cut the homeowner's normal cleaning and maintenance costs in half.

The Honeywell Electronic Air Cleaner protects your investment by reducing model home maintenance costs. And, by merchandising the benefits of clean air to new home buyers, you create a competitive difference, stimulate sales action and receive substantial return on your clean air investment.

Why Honeywell?
The Honeywell Electronic Air Cleaner gives years of high-efficiency air cleaning while requiring no ongoing replacement cost and only the simplest cleaning maintenance. The homeowner simply washes the durable lightweight cell (9/16 lbs.) in the automatic dishwasher.

So how do you benefit?
Honeywell has made a commitment to back the Electronic Air Cleaner with aggressive national and local advertising. So if you feature clean air in your homes, Honeywell's advertising support will be helping you sell your homes.
But the Honeywell support doesn't stop there. A complete package of merchandising materials has been developed on the Smoke and Fire Detector, the Fuel Saver Thermostat and the Electronic Air Cleaner to help you effectively feature each device in your model homes. Suggested radio scripts and newspaper ads have also been developed to help you promote these unique features to your home prospects.
It's all spelled out for you in our new builder brochure, yours for the asking. Write us today, Honeywell, Honeywell Plaza, MN12-2118, Minneapolis, Minnesota 55408.

Circle 53 on inquiry card
What's New?

This office reception area of the Navarino Shipping and Transport Company, New York—designed with daring by Charles Boxenbaum, A.I.A., a member of Formica Corporation's Design Advisory Board.

Fabricated in Black FORMICA® brand laminate (#909) by Bachmann & Dunn, Yonkers, New York, the result is as functional as it is aesthetically beautiful.

Because FORMICA® brand decorative laminate is the perfect material for commercial remodeling, contract furnishings and casework. With all the benefits that have made Formica Corporation the industry leader in laminate design, quality and innovation.

To see what else is new, write us for your free subscription to FORMICA TODAY. Excite your imagination with the unique and beautiful things that are being created using FORMICA® brand decorative laminate. Write to: Formica Corporation, Advertising Services Department T, Wayne, N.J. 07470.

What's Next!

FORMICA® is a registered trademark of Formica Corporation.
Formica Corporation, subsidiary of American Cyanamid Company, Wayne, N.J. 07470

Circle 54 on inquiry card
An issue on one of the most urgent problems of our time: 
HUMAN SETTLEMENTS
An award-winning, thought provoking issue on housing the 
world’s urban poor.

A MAJOR BUILDING TYPES STUDY...
BUILDING FOR SPORT
A SCHOOL FOR THE DANCE—By Gunnar Birkerts
4 Projects by R.M. Kliment and Frances Halsband.

40 YEARS OF AMERICAN ARCHITECTURE as explored in 499
Building Types Studies—a remarkable collection of the best 
buildings in the last 40 years.

RECORD HOUSES OF 1977...
PLUS APARTMENTS OF THE YEAR.
20 houses and 6 multi-family projects selected for the 
1977 AWARDS OF EXCELLENCE FOR DESIGN.

A MAJOR BUILDING TYPES STUDY...
RELIGIOUS BUILDINGS
Plus:
LOFT LIVING: big spaces, fresh images.
TWO LEARNING PLACES: by Metz Train Olson & Youngman.

A MAJOR BUILDING TYPES STUDY...
ENGINEERING FOR ARCHITECTURE...
featuring ten examples of effective architect-engineer 
collaboration
also: SOLAR ENERGY—NOTES FROM THE FIELD.

A MAJOR BUILDING TYPES STUDY...
DESIGNS FOR LEISURE.
New Buildings by Teodoro Gonzalez de Leon and
Abraham Zabludovsky.
THE MALLS AT WATER TOWER PLACE, Chicago, by
Warren Platner Associates.

BUILDING TYPES STUDY...COLLEGE BUILDINGS.
A PORTFOLIO OF RESIDENTIAL ADDITIONS.
“POSSIBILITIES IN ARCHITECTURE,” by Robert Geddes.

THE CASE FOR DESIGN QUALITY IN 
TODAY’S MARKETPLACE.
Four studies of Collaboration Between Architects and 
Developers That Explore the Arithmetic of Excellence.
BOSTON'S HISTORIC FANEUIL HALL MARKETPLACE 
restored and transformed into a successful downtown center.

ARCHITECTURAL ENGINEERING: QUALITY LIGHT 
WITH LOW ENERGY CONSUMPTION.
PUBLICATION CONSTRAINTS AND GOOD DESIGN: two 
community buildings by Giardullo Ehmans.
A MAJOR BUILDING TYPES STUDY: DESIGNING 
FOR CULTURE.

RECORD HOUSES OF 1978. Featuring the winners for the 
1978 AWARDS OF EXCELLENCE FOR DESIGN.

A MAJOR BUILDING TYPES STUDY...
BUILDINGS FOR INDUSTRY.
3 Designs by Johnson/Burgee 
PLUS...NEW CORPORATE COMPLEX FOR 
FLUOR CORPORATION,
by Welton Becket Associates.

BUILDING TYPES STUDY...
ENGINEERING FOR ARCHITECTURE.
Featuring the exciting Washington, D.C. and Toronto Metro 
systems. The innovative treatment for lighting for the 
underground offers distinctive design approaches.
GAUDI: MASTER OF FORM AND CRAFT.

LOW-RISE HOUSING... illustrating some interesting solutions 
to problems with new and renovated apartments.
ST. LOUIS MUSEUM OF ART RESTORATION 
—by HARDY HOLZMAN 
PFEIFFER ASSOCIATES.

PRODUCT REPORTS 1979.
A veritable trade show in print. Nearly 1000 new products 
arranged in the handy 16-page UCI format. A “must-have” 
issue for all that is new for the design professional. Includes 
reader service cards enabling you to obtain additional 
information directly from the manufacturer.
Visit these 68 exceptional, idea-filled houses. Each designed and built to fit its own unique surroundings.

Uncover the uncommon in this visual odyssey highlighting some of the most outstanding, trend-setting houses to appear on the pages of Architectural Record. You'll see 68 original, livable, and convenient homes...superlative creations of space and mood and each custom designed for its own particular site.

One of the most striking features is the book's lavish illustrations. A variety of exterior and interior photographs let you see hundreds of rooms, specific architectural details, floor plans, furnishings, and decorations.

This finely bound compendium of idea-filled homes illustrates the critical relationship of a house to its site, explains how and why houses must be related differently to different sites and shows how this relationship results in better homes.

You'll use this book for browsing and to stimulate your own creativity. To see how various design elements can be cleverly and dramatically put to specific advantages. And to be inspired to develop a unique design for a house of your own.

ARCHITECTURAL RECORD
1221 Avenue of the Americas, New York, N.Y. 10020

Please send me GREAT HOUSES (002314-X) for 10 days' free examination. At the end of that time I will remit $21.50, plus local tax, postage, and handling, or return the volume without obligation. This offer good only in the U.S. and subject to acceptance by McGraw-Hill.

Name
Address
City
State Zip

SAVE MONEY
Remit in full with this order, plus local tax, and McGraw-Hill pays all regular postage and handling costs. Return book in 10 days for full refund if not completely satisfied.
COUNTERTOP/SINK / Countertops with integrally cast-in sinks are made from Corian filled polymer sheet in a number of configurations, including a vanity top with double bowl, the double-sink kitchen unit shown here, and a wet bar counter. Solid Corian counters are impervious to most stains; burns and cuts are easily removed with fine sandpaper. • Du Pont Co., Wilmington, Del.

Can be seen at your nearest distributor...

ALABAMA
GORDON CON & ASSOCIATES
3901 5th Avenue
Birmingham, Alabama 35222
Phone: (205) 322-0379

ALASKA
ALASKA MARINE INC.
The Diamond Mall Suite 268
600 E. 10th Street
Anchorage, Alaska 99502
Phone: (907) 343-4022

ARIZONA
ADVANCE ENVIRONMENTAL
641 East Indiana School Road
Phoenix, Arizona 85014
Phone: (602) 274-8997

CALIFORNIA
ALUMINUM & BAGNO
987 Beverly Rd
Los Angeles, California 90048
Phone: (213) 272-9594

ALUMINUM & BAGNO
Newport Beach, California 92660
Phone: (714) 663-9277

LANDERS & WOOD
The San Antonio, Swope 2009
1018 Komenski Street
San Marcos, California 92069
Phone: (714) 564-5941

COLORADO
DESIGN CENTER
310 South Street
Denver, Colorado 80205
Phone: (303) 388-6537

DISTRICT OF COLUMBIA
P.T. SWEDISH HD.
Oh & Bachonick 8, M.E.
Washington, D.C.
Phone: (202) 635-4100

FLORIDA
DESIGNER TILE INTERNATIONAL
2243 SW 8th Avenue
Miami, Florida 33125
Phone: (305) 589-2647

NEW YORK
HASTINGS TILE & BAGNO COLLECTION
214 Thompson St
New York, New York 10012
Phone: (212) 724-2740

HASTINGS TILE & BAGNO COLLECTION
524 Centre Street
New York, New York 10013
Phone: (212) 765-2740

MD REEF CRIBS
3500 Court Street
Dyker Heights, New York 11221
Phone: (718) 437-5158

MODERN KITCHENS OF
STECKLER'S
2300 West 8th Avenue
Portland, Oregon 97205
Phone: (503) 246-4900

MODERN KITCHENS OF ALABAMA
116 Alabama Avenue
Colonia, New York 10004
Phone: (212) 688-2346

THE SHOWROOM BY F.P. SUPPLY
173 Clinton Avenue
Brockton, New York 14624
Phone: (716) 335-2073

OREGON
NEIL KELLY INC.
723 North Alberta
Portland, Oregon 97217
Phone: (503) 226-3444

FAMOUS BAGNO INC.
2083 N. Columbia Boulevard
Portland, Oregon 97217
Phone: (503) 764-3349

FAMOUS BAGNO INC.
1837 Center St.
Gladstone, Oregon 97027
Phone: (503) 648-2010

PENNSYLVANIA
HAMPTON PLUMBING SUPPLY CO., INC.
1415 12th Avenue
Baltimore, Pennsylvania 15204
Phone: (412) 436-4271

ISEL TILE COLLECTION
1800 Bellaire Boulevard
Houston, Texas 77023
Phone: (713) 526-9754

PENNSYLVANIA
HAMPTON PLUMBING SUPPLY CO., INC.
1415 12th Avenue
Baltimore, Pennsylvania 15204
Phone: (412) 436-4271

TEXAS
AMERICAN TILE SUPPLY INC.
2537 Market Road
Dallas, Texas 75235
Phone: (214) 242-2237

MASTER TILE COMPANY
2584 McAllister
Houston, Texas 77024
Phone: (713) 848-2720

UTAH
COUNTRY HOME & TILE
2204 East Murray-Holladay Rd
Salt Lake City, Utah 84117
Phone: (801) 272-3561

WASHINGTON
LARGO TILES COMPANY, INC.
Design Center (N 41st & C)
Seattle, Washington 98109
Phone: (206) 767-4628

FAMOUS BAGNO INC.
7310 16th Avenue N
Seattle, Washington 98125
Phone: (206) 767-4628

FAMOUS BAGNO INC.
233 North Vermont
Vancouver, Washington 98663
Phone: (206) 334-5247

FAMOUS BAGNO INC.
1344 8th Ave East
Seattle, Washington 98122
Phone: (206) 922-7060

SKYLIGHTS / A vinyl curb is said to provide superior thermal performance. In installations of the double-dome Skywindow, specifically designed for residential applications. A continuous weather gasket eliminates air infiltration between curb and frame; an integral condensation gutter prevents any possible interior dripping. The Skywindow line includes round and dormer-shaped acrylic units, and a flat skylight with safety glass. All are available as fixed position or vented windows. • Wasco Products, Inc., Sanford, Maine.

CUSTOM BATHS / Ortega Onyx is said to bear an uncanny resemblance to natural onyx in texture, weight and appearance, but at a cost that permits its extensive use in custom-designed bathrooms. The material offers a large range of size, shape and contour possibilities, with design assistance available from the manufacturer. Delivery of a hand-crafted bath environment is said to be one to six weeks. • Ortega Onyx, Inc., North Hollywood, Calif.

WALLCOVERINGS / Taken from this manufacturer's most recent wall-covering collection, "China Blue" wallpaper has Oriental figures in blue and natural colors. Cotton prints also reflect the design impressions of exotic places and eras in fabric for draperies and upholstery. • Greiff Fabrics, Inc., Port Chester, N.Y.

HASTINGS TILE & IL BAGNO COLLECTION...
HASTINGS TILE & IL BAGNO COLLECTION
Pedestal Basins • Water Closets • Bidets • Fittings • Modular, Decorator and Hand Painted Tile • Showers and Baths in the Round • 8-Jet Whirlpool Baths • Medicine Cabinets • Vanities • Mirrors • Waste Paper Baskets • Accessories • Marble Tile

HASTINGS... Creating trends others follow
From colonial, homespun New England to the free-spirited West Coast. From the rustic, wooded Northland to the enchanting South.

Andersen® windows and gliding doors make it easier for you to design a lifestyle for any home, any setting. With a flexibility and beauty that’s bound to please.

In a variety of styles, hundreds of sizes and thousands of window and glazing combinations.

In the warmth, charm and character of their interior wood trim. Their crisp, clean, uncluttered appearance.

And in the quality that comes from over 75 years of dedicated craftsmanship and close attention to detail.

You can see it in the beautiful ways Andersen uses wood and double-pane insulating glass, or triple-glazing.

---

**Gliding Doors.**
For indoor-outdoor living. In primed wood, or in new Terratone™ color factory finish, or in Perma-Shield™ vinyl-sheathed wood. Rigid vinyl doesn’t need paint every few years.

**Casement Windows.**
In primed wood, or in white or Terratone Perma-Shield™ vinyl-clad wood. Inside wood trim can be stained or painted to match any decor.
from sea to shining sea.

all excellent fuel savers.

Combined in an energy-efficient design that's two times more weathertight than industry air-infiltration standards.

And with Perma-Shield® vinyl-sheathed products, there's the added beauty of windows and gliding doors that won't need painting every few years.

It makes Andersen the Beautiful, practical in any building, any design, from sea to shining sea.

For more details, see Sweet's File 8.16/An. Or call your Andersen distributor or dealer, he's in the Yellow Pages under "Windows." Andersen Corporation, P.O. Box 12, Bayport, MN 55003.

Perma-Shield Narroline® Windows.
Traditional beauty without the traditional bother. Wood frame is clad with rigid vinyl. Exterior of sash is protected by a weather-resistant, long-lasting polyurea finish. Available soon in Terratone color.

Perma-Shield Gliding Windows.
Slide-open "picture" windows. Low upkeep vinyl, inside and out.

Awning Style Windows.
Perma-Shield awning windows available in white or our earth-tone color, Terratone.

The beautiful way to save fuel®

Andersen® Windowwalls

Circle 56 on inquiry card
ARCHITECTURAL RECORD announces a one-day seminar for architects and interior designers on...

MARKETING NONRESIDENTIAL INTERIOR DESIGN SERVICES

A one-day seminar for management level personnel and principals of architectural and interior design firms, focusing on current marketing and management skills that can help bring in jobs.

Attendees successfully completing this seminar will be awarded .7 Continuing Education Units and a certificate of completion.

**Specifically, you'll cover:**
1. The market: How big is it, and where are the growth areas? And what is it looking for in current and new interior design services?
2. The economics of entering the interior design field, and staying in.

San Francisco August 2, 1979
Chicago September 14, 1979
New York October 12, 1979

TOTAL INTERIORS VOLUME


$2 BILLION
Program includes:
GROWTH POTENTIAL FOR THESE MAJOR INTERIOR DESIGN MARKETS
- Offices
- Government
- Hotels
- Education
- Commercial/retail
- Industry
- New growth markets

SERVICES TYPICALLY INCLUDED IN INTERIOR DESIGN CONTRACTS
- Design services
- Non-design services
- New, untraditional services
- Entry-level services (to help you break into the interior design field)

KNOWING YOUR COMPETITION:
SOURCES OF DESIGN SERVICES
- Interior design firms
- Architectural/engineering firms
- Contract furnishings dealers
- Manufacturers
- In-house design departments

PICKING A CORPORATE IDENTITY
- How to determine your identity
- How to produce it

BUSINESS DEVELOPMENT APPROACHES
- Using one service to sell another
- Increasing repeat client business
- Entering new markets effectively
- Use of sales personnel

PINPOINTING PROFITABLE BUSINESS STRATEGIES
- Going it alone, joint venturing, associating
- Specializing, or not
- Spinning off an interior design department as a new firm
- Setting realistic growth goals

COMPENSATION GUIDELINES
- Pricing interior design services
  - Traditional methods
  - New ideas for pricing
- Impact of individual markets on fees
- To sell, or not to sell, on price
- Matching fees to marketing goals
- Consultants' impact on pricing
- Negotiating fees effectively

MARKETING AIDS
- What the essential ones are
- How to use marketing aids
- What to show the client, and when
- Staffing, as a marketing tool
- Public relations and advertising
- Shortcuts to responding to RFP's

MARKETING BUDGETS
- Identifying marketing overhead
- Investment requirements for marketing

As heads of national interior design firms, your instructors are marketing experts

Kenneth Walker, AIA, is founder and president of the New York architectural and design firm, Walker/Group Inc., one of the major corporate and retail planners in the United States. Among the firm's retail projects are stores for Burdines (Florida), Bullock's (California), Bonwit Teller (New York), Ivey's (North Carolina), Broadway (California), and Rockefeller Center Concourse (New York). Mr. Walker has taught at the Rhode Island School of Design, Harvard University, Massachusetts Institute of Technology, and the Architectural Association, London. He has received numerous awards in the fields of graphic, industrial and interior design. Mr. Walker founded the Walker/Group in 1969. At that time, the firm consisted of Mr. Walker and one assistant. The firm is now a corporation of more than 70, engaging in architecture, interior design, graphics, retail and corporate planning.

John Springer, AIA, is president of Innerplan, a facilities planning and interiors firm based in New York, with offices in Boston, Washington, D.C., Houston, San Francisco and Los Angeles. Innerplan is an affiliate of John Carl Warnecke & Associates, architects and planning consultants. Mr. Springer joined the Warnecke firm in 1973, after serving as a senior designer at I.M. Pei & Partners. Mr. Springer became Office Administrator for John Carl Warnecke & Associates in 1976, and was responsible for financial management of the New York office. In 1978, Mr. Springer assumed the leadership of Innerplan, a nationwide management-oriented firm concentrating on the office environment, with particular emphasis on the pre-planning functions. Mr. Springer's facilities planning and interiors projects include work for IBM, AT&T, Long Lines, ABC, Union Carbide, and New York Telephone.

Return to:
ARCHITECTURAL RECORD SEMINARS
McGraw-Hill, Inc., 1221 Avenue of the Americas
New York, NY, 10020 Phone (212) 997-3088

Register me in the ARCHITECTURAL RECORD seminar checked below.

MARKETING NONRESIDENTIAL INTERIOR DESIGN SERVICES
- August 2, 1979 San Francisco Fairmont Hotel
- September 14, 1979 Chicago Water Tower Hyatt House
- October 12, 1979 New York The Halloran House
- Check enclosed, payable to ARCHITECTURAL RECORD ($250)
- Bill me

Name __________________________
Title __________________________

Firm __________________________

Street __________________________
City __________________________ State ________ Zip ________
Phone ( ) _______________________

Signature ________________________

Please check if: □ Architect □ Engineer □ Other ________
In case you’re puzzled about which piece of furniture provides smooth indirect lighting to this room, it’s the tall, handsome structure in the foreground. One of the many versions of Torchier, the exceptional new task/ambient lighting system from Wide-Lite.

Naturally, Torchier gives you all the advantages you expect from a task/ambient lighting system: flexibility of luminaire location, easy installation, an uncluttered ceiling, no visible light source, tax advantages, and impressive energy savings.

But Torchier also offers some remarkable advantages no other does. Unparalleled visual comfort and visibility, with a choice of three distribution patterns. Ultra-quiet operation. Our exclusive HID Dimming and LiteMatic Standby features. Sculptured design with rounded corners. Thirty standard laminate colors and a broad range of custom wood finishes. And our three-year limited warranty.

Now you can have both. The obvious advantages of task/ambient lighting, and the superior quality you expect from Wide-Lite.

With Torchier. Great-looking furniture that doubles as an energy-saving luminaire.

See your Wide-Lite representative for more information. Or write for our free brochure.

TORCHIER
TASK-AMBIENT HID LIGHTING FROM
Wide-Lite

P.O. Box 606, San Marcos, Texas 78666. Wide-Lite® products also manufactured in Australia, Belgium (for Europe), Canada, Mexico, Great Britain, Venezuela and South Africa. A company of the Esquire Lighting Group.
Love to look at architecture people live in? See some of today's most interesting and important design ideas for the custom house in . . .

A TREASURY OF CONTEMPORARY HOUSES

Edited by Walter F. Wagner, Jr., AIA

Both inside and out, the 53 very personal houses you'll explore in the pages of this lavishly illustrated volume are contemporary and striking. Each is a rich lode mine of ideas for new designs, new concepts, new ways of combining spaces to meet individual needs, traditions, tastes, and highly subjective ideas of what "home" is.

Each design shown was chosen (called from Architectural Record issues and appearing now for the first time in any Architectural Record book) because it demonstrates something important about architecture—good architecture—whether high- or low-budget. And also because it presents a different variation in plan, form, and character, giving both architect and homeowner new options and new perspectives on the ways in which architecture can capture and complement personality.

People who want a house that is truly their own can use this beautiful volume to understand and appreciate their own reasons for liking a particular kind of house—traditional or geometric or romantic or a combination of these—and be aware of why it was designed in a particular way. For example, you'll visit . . .

- totally modern houses that continue centuries-old traditional regions
- designs that reflect today's new emphasis on energy conservation
- thrilling variations on the simplest shape of all—the box
- dazzling arrangements of "collections of boxes" to form dramatic house
- inspired, strong designs based on the circle and the 45-degree angle
- forms of houses dictated almost inevitably by their construction materials
- genuinely contemporary houses that are nevertheless completely romantic—dispelling the notion that modern houses are "cold" by definition.

Both architects and clients will find that this volume actually raises their expectations—as what someone can look for in a house that will be a family home for many years, what degree of excellence in the house is in order, how much a really good house can give in comfort and the enjoyment of life.

Hundreds of ideas and design solutions include:

- how simple square and rectangular boxes can give enormous, sprawling, dramatic houses a sense of human scale
- how the box can become extremely sophisticated—and incorporate elegant, exquisitely wrought details
- how historical precedents and images can be subtly woven into the design of a contemporary house to enhance the whole and even make it more contemporary at the same time
- how to treat the difficult design problem of integrating a solar collector into a home aesthetically
- how a graceful arc can help define a house which "springs from and returns to earth"
- how a triangular shape can create one great space in a tiny house
- how superbly designed, a concrete-block house achieves a sculptural effect with this wonderfully straightforward building material
- and much, much more

USE THIS CONVENIENT COUPON FOR 15 DAYS' FREE EXAMINATION

Architectural Record Books
1221 Avenue of the Americas, New York, N.Y. 10020

Please send me A TREASURY OF CONTEMPORARY HOUSES (002230-1) for 15 days' free examination. At the end of that time, I will either return $13.95, plus local tax, postage, and handling charges, or return the book without further obligation.

Name ____________________________
Address ____________________________
City ____________________________ State ________ Zip ____________

SAVE MONEY!

if you remain in full with this order, plus any tax, McGraw-Hill pays all regular postage and handling charges. Full return privileges still apply. This offer is subject to acceptance by McGraw-Hill. Offer good only in the U.S.

03K-668-4005-3

Circle 57 on Inquiry card
THE UNITED WAY HAS A BIGGER CASH FLOW THAN HALF THE COMPANIES ON THE NEW YORK STOCK EXCHANGE AND THE LARGEST STOCKHOLDER RETURN OF ANY.

No matter how you look at it, when it comes to helping one another, there isn’t a better or more efficient way than United Way.

An amazing 89¢ of every dollar you give goes to agencies that help people in need.

How can an organization as big as United Way keep costs that low?

The answer is that United Way is an organization that relies not just on gifts of money, but gifts of time as well.

Volunteers provide United Way with help and talent that would, under normal business conditions, cost millions and millions of dollars.

So that everyone who gives to United Way gets the kind of return on their money that most businessmen can only dream about.
There is no substitute for real wood.

And, when it comes to real wood paneling, there's no substitute for Georgia-Pacific.

Wood has a warmth and charm that can't be matched by any other building material. And plywood wall paneling with real wood veneers can't be matched by any other wall covering. Real wood paneling looks new for years without extensive maintenance. And no two panels are alike. There's something new and different and beautiful in every panel.

Georgia-Pacific has the industry's outstanding selection of real wood paneling. Look us up in Sweet's File 9.12/Ge. You'll see why there's no substitute for real wood paneling in homes, stores, offices—all kinds of construction. And you'll also see why there's no substitute for Georgia-Pacific.

Georgia-Pacific
Portland, Oregon 97204
ARCHITECTURAL RECORD announces a two-day seminar for architects, engineers, interior designers, lighting designers, and owners...

DESIGNING CONTEMPORARY OFFICE LIGHTING

August 1–2, 1979
San Francisco

September 12–13, 1979
Chicago

October 10–11, 1979
New York

Attendees successfully completing this seminar will be awarded 1.4 Continuing Education Units and a certificate of completion.
Specifically, you’ll learn:

- Pre-fluorescent
- Advent of fluorescent sources
  Evaluating fluorescent sources
  Impact on office lighting design
  Impact on office layouts
  Trends in fluorescent lighting
- Advent of HID sources
  Evaluating HID sources
  Impact on office lighting design
  Impact on office layouts
  Trends in HID lighting
- Trend toward task/ambient approach
  Impact on office lighting design
  Impact on office layouts
  Trends in task/ambient lighting

- Reading
- Writing
- Typing
- CRT operations
- Telephone operations
- Drafting
- Other office tasks
- Designing for brightness contrast
  Task background contrast
  Environmental contrast
- Controlling glare (reflected & direct)
  Veiling reflections
  Evaluating fixtures for direct glare
  Evaluating VCP data
- Measuring & evaluating illumination levels
- Equivalent sphere illumination
  What is it?
  How is it used in office lighting design?
- Improving worker performance through lighting
- Keeping it productive
- Methods for control
- Open layout
- Low partitions
- High partitions
- Closed offices
- Executive offices
- High level general illumination concepts
  Indirect light
  Direct light
- Task/Ambient concepts
- First costs
- Operating costs
- Tax write-offs
- Effect of related trades (maintenance, ceiling)
- Reducing energy consumption through control of:
  Surface reflectances
  Partition heights
  Ceiling conditions
- Meeting mandated power budgets
- How architects, designers work with lighting consultants
- A review of specific installations and lighting equipment

Your instructors are principals in the firm of Jules G. Horton Lighting Design, Inc.

Jules G. Horton, PE, IALD is president and director for design of the New York lighting design firm that he founded in 1962. A well-known writer, lecturer and speaker, he has lectured at Cornell University, Parsons School of Design, Pratt Institute, and taught for two years at the Fashion Institute of Technology. Mr. Horton’s lighting design projects include almost every building type, and he has worked in Europe, Australia, Africa and Asia in addition to the United States. From 1963 to 1967, he worked as lighting consultant with the New York consulting engineering firm of Syska & Hennessy. He received the 1970 Lumon Award for the Bergdorf Goodman store extension in New York, and the 1974 Lumon Citation for his lighting design at the Dallas/Fort Worth Regional Airport. Mr. Horton is a registered professional engineer, a member of the U.S. and Australian Illuminating Engineering Societies, and a charter member of the International Association of Lighting Designers (IALD), where he currently serves as the president.

Stephen Wicks Lees, IALD is vice president of Jules G. Horton Lighting Design, Inc. Since joining the firm in 1976, Mr. Lees has been involved with the lighting design and project management for the San Francisco Performing Arts Center and the Harvard Square Station in Cambridge, Massachusetts. Also among his lighting projects is the Science and Mathematics Center Junior College in Riyadh, Saudi Arabia. Mr. Lees combines an extensive background in theater lighting design with technical expertise (computerized lighting calculations and energy budgeting) in pleasing and efficient designs, including Rigging International Headquarters, Oakland, Calif., and Deutsch Bank AG, New York City. Mr. Lees teaches lighting design at Pratt Institute, and is an active member of the International Association of Lighting Designers.

Return to:
ARCHITECTURAL RECORD SEMINARS
McGraw-Hill, Inc., 1221 Avenue of the Americas
New York, NY 10020 Phone (212) 997-3088

Register me in the ARCHITECTURAL RECORD seminar checked below.

DESIGNING CONTEMPORARY OFFICE LIGHTING
☐ August 1-2, 1979 San Francisco Fairmont Hotel
☐ September 12-13, 1979 Chicago Water Tower Hyatt House
☐ October 10-11, 1979 New York The Halloran House
☐ Check enclosed, payable to ARCHITECTURAL RECORD ($395)
☐ Bill me

Name ____________________________
Title ____________________________
Firm ____________________________
Street ___________________________
City _____________________________ State________ Zip________
Phone ___________________________
Signature _________________________

Please check if:  ☐ Architect  ☐ Engineer  ☐ Other

... (Additional text not visible)
ADVERTISING INDEX

A
AM International, Brumming Engineering .......................... 138
American Clean Tile Co. .................................. 32
American Plywood Association ................................ 35 to 40
Anderson Corp. .............................................. 89, 138-139
Architectural Record Books .................................. 34, 46, 155, 163
Architectural Record Seminars ................................. 142-143, 160-161, 166-167
Armstrong Cork Co. ........................................ 118

B
Belgian Linen Association .................................... 47
Birdale-Chemfab ............................................. 135
Biland Wood Products Co. ................................... 170
Boise Cascade Wood Products ................................. 5-6
Brumming Engineering, Div. of AM International .... 138

C
Cabot, Inc., Samuel ........................................... 131
California Redwood Assn. .................................... 16-17, 148
Cold Spring Granite Co. ....................................... 141
Corrugated Industries Inc. .................................... 27
Continental Custom Bridge Co. ................................ 132

D
Dial Finance ..................................................... 134
DuPont de Nemours & Co., Inc., El. ......................... 42
Dryvair Systems, Inc. ......................................... 128-129

E
Elkay Mfg. Co. ............................................... 7

F
Fields, Edward Inc. ........................................... 41
Foresta Corp. .................................................. 151

G
Georgia-Pacific Corporation ................................ 165
H
Hamilton Adams Imports .................................... 137
Hastings Pavement Co., Inc. ................................ 158-159
Honeywell Inc. ................................................ 150

I
International Paper Co., Cabinet Division ................. 28-29

J
Jacuzzi Whirlpool Bath Inc. ................................ 146

K
Kirsch Co. ...................................................... 12-13
Kohler Company .............................................. 10

L
Laminators Safety Glass Assn. ............................... Covil
Lennox Industries Inc. ........................................ 44
Levolor Lorienten Inc. ........................................ 130
Ludwig-Caledon Co. .......................................... 139
Lyon Metal Products, Inc. .................................... 132

M
Market-Multure Div. of Scovill Mfg. Co. .................... 19
Marvin Windows .............................................. 169
Montgomery Elevator Co. .................................... 127

N
Naturallite, Inc. .............................................. 18

O
Olympic Stain Company ..................................... Covil
Osmose Wood Preserving Co. ............................... 22

P
Pella Rollscreen Co. .......................................... 20-21
Potlatch Corp. ................................................ 136
PPG Industries Inc. Coll Coatings & Extrusions ....... 140
PPG Industries Inc.-Res. .................................... 11

R
Raynor Mfg. Co. .............................................. 15
Red Cedar Shingle & Handsplit Shale Bureau ............. 48
Revere Solar & Architectural Products, Inc., Subs. of Revere Copper & Brass, Inc. .... 33
R-Way Furniture Co. ......................................... 30

S
Sears, Roebuck & Co. ....................................... 14
Shakertown Corp. ............................................. 24
Seco Inc. ....................................................... 26
Simpson Timber Co. .......................................... 133
Standard Dry Wall Products ................................ 31
Stendig International Inc. ................................... 3
Sunworks Div. of Emintona, Inc. ............................. 6

U
United States Gypsum Co. ................................... 45

V
Ventarama Skylight Corp. .................................. 149
Vincent Brass & Aluminum Co. .............................. 147

W
Wheeling Pittsburgh Steel Corp. ............................ 144-145
Whitacre-Greer .............................................. 22
Wide-Ute Corporation ...................................... 162

ARCHITECTURAL RECORD

Advertising Sales Mgr.: Robert G. Klesch (212) 997-2838
Business Mgr.: Joseph R. Wink (212) 997-2793
Research Mgr.: Camille Paulina (212) 997-2858
Classified Advertising: (212) 997-3306

District Offices:
Atlanta 30361.............................................. 825-2868
Chicago 60611 ............................................... 45-48
Cleveland 44113 ........................................... 57-57
Denver 80203 ............................................... 76-76
Detroit 48202 ................................................ 45-45
Houston 77002 ............................................. 57-57
Los Angeles 90010 ........................................ 45-45
Philadelphia 19102 ........................................ 45-45
Pittsburgh 15222 ........................................... 45-45
San Francisco 94110 ..................................... 45-45
Stamford 06901 .............................................. 45-45

168 ARCHITECTURAL RECORD HOMES OF 1979
In Warroad, Minn., we have a firm-but-polite answer to special requests: Yes.

There are a lot of design concepts that call for fine wood windows, but where standard units don’t meet all of the requirements. When that happens, call Marvin. We make the world’s largest line of fine wood windows, but we also build windows to architects’ specifications. For instance, we’ll furnish windows with extra wide jambs to match increasingly thicker walls. We can also supply non-standard frame sizes. When true divided lites are specified, we build them. Special glazing, including Solar Bronze, Solar Gray, and cathedral glazing, are furnished on request. We also offer beautiful trapezoids and triangles in any shape or size you specify. These beautiful units have heavy 5/4 frames and 1” insulating glass.

Write or call for catalogs and tracing details. Marvin Windows, Warroad, MN 56763. Phone: 218-386-1430.

Circle 59 on inquiry card
MEET BLANDEX ALL PURPOSE PANELS — The New Generation Construction And Remodeling Product

Whenever construction plans call for the use of panels, BLANDEX is the single answer. From wall and roof sheathing to soffits, installation is expedited with strong, solid, single grade BLANDEX panels which are easily sawed and super tough.

Unusual strength and controlled thickness are achieved by thermo-bonding aspen wafers with phenolic resins under extreme heat and pressure. The finished product is a solid grade A panel without grain, knots or voids. It has an extremely attractive textured surface which lends itself to a wide variety of finishes. BLANDEX panels are also produced with a channel groove or reverse board and batten design for interior application as well as satisfying the growing demand for economical and durable exterior siding. An oil base prime coat and acrylic latex finish coats are recommended to enhance the beauty of the design and provide long lasting protection.

Blandin Wood Products Co., Grand Rapids, Minn. 55744

Ask for BLANDEX® at your local lumber dealer.
Reduce Slope-Glazing Hazards with Laminated Glass

Specify LAMINATED Safety Glass in all of your slope-glazing projects! Avoid potential liability! IT’S SAFER! Glass-to-PVB adhesion prevents “fall-out” and creates a safeguard for occupants who are exposed to overhead glass... such as slopeglazing, skylights, and high-rise exterior glazing. Laminated safety glass is distortion-free! It gives you freedom of design and solar control, plus the benefits of easy on-the-job fabrication. Make it safer! Make it LAMINATED safety glass!

WIRED GLASS. This type of glass breaks similarly to traditional glass with the break passing through the wire netting. Shards with jagged edges surround the hole but more pieces of glass stay in place around the point of penetration. Cut wires protrudes.

TEMPERED GLASS. This type of glass requires a higher impact energy to break. When it breaks, it shatters completely and the break passes through it. Only a small number of glass pieces remain in the frame.

LAMINATED GLASS. Under impact, laminated safety glass is crazed but remains integral. There is no penetration of the bag. A typical cobweb pattern extends from the point of impact with the broken glass pieces adhering to the interlayer.

Send for FREE Booklet

Get All the facts about Laminated Glass—just send a postcard to:
LAMINATORS SAFETY GLASS ASSOCIATION
3310 Harrison
Topeka, Kansas 66611

LAMINATORS SAFETY GLASS ASSOCIATION
Making Glass that WORKS for You

Circle 61 on inquiry card
Enhance and protect the natural beauty of wood with Olympic Oil Stain. Olympic penetrates wood to protect from within. Rich linseed oil and micro-milled pigments soak down into the fibers, giving wood a deep, uniform finish that stays beautiful no matter how wet or how dry the weather gets.

For additional information, consult your 1979 Sweet's Catalog. Or write Olympic: Dept. P, P.O. Box 1497, Bellevue, WA 98009.

Penetrates to protect wood beautifully.