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Rush is a dirty word at Nichols & Stone, until it comes to the seats.

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Questions & Answers:

Antiques

By Louise Ade Roger

American Tea Service

I have always wanted to know the background of this tea service. Here is a copy of the mark.

B.T.G.—Upland, Cal.

Your plated silver tea service was illustrated in a catalogue of the Meriden Britannia Company of Meriden, Conn., in July 1867. 1873 is the design number, not the date. Most of these old sets had three pots—for coffee, tea, and water. The numeral "6" is used on the teapot and "5" on the water pot, and this also indicates the capacity in terms of half-pints.

Japanese Candlestick

My son bought this candlestick in an antique shop in Japan. Can you tell me something about it? How was it used?


This folding brass candlestick is Japanese in origin, dating from the 19th century. It was intended for use in traveling.

Mechanical Bank

My bank is inscribed "Hall’s Excelsior Bank." When you pull the doorbell, the roof of the capola raises and a monkey seated behind a desk receives the coin and turns his head.

I have been told this is the oldest iron mechanical bank. Is this true?

J.F.—Mt. Kisco, N.Y.

Yes, it is true. The earliest patent for a mechanical bank made in cast iron was issued in December 1869 to John Hall of Watertown, Conn. It was manufactured by J & E Stevens of Cromwell, Conn.

Connecticut Shelf Clock

This clock chimes every hour and half hour. The name inside is "Ansonia Clock." About how old do you think it is?

B.V.—Bronx, N.Y.

The Ansonia Clock Company, located at Ansonia, Conn., from 1851 to 1878, probably made your shelf clock between 1860 and 1875. It is in the Victorian Renaissance style and is an elaborate version of a popular shelf clock model.

Continued on page 13
Isn't this an exceptional time to join the BOOK-OF-THE-MONTH CLUB?

One glance at the Book-of-the-Month Club's current choices and you'll see the kind of books that can sharpen your understanding, widen your perspective and bring you the pure pleasure of good reading. That's why we think you'll find that here is an excellent opportunity to pick four books you will really want to read and own — all for only $1. And as a continuing member of the Book-of-the-Month Club, you'll take part in our Book-Dividend® plan—enabling you to build a home library you'll be proud of while saving up to 70% as well. So why wait? Join today.

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ANTIOQUES continued from page 8

AURENE GLASS BOWL

This glass bowl has been in our family for at least fifty years. On the bottom is "aurene-2586." Can you tell us who made it?

C.R.—Garden City, N.Y.

Aurene glass was created by Frederick Carder who founded and was in charge of the Steuben Glass Works at Corning, N.Y., 1903-1932. He numbered the items in the order he designed them, beginning with 1 in 1903 and ending with 7,749 in 1932.

ENGLISH FIGURES
Can you identify these mantel ornaments?

We have owned them for as long as I can remember.

L.C.—Greenwich, Conn.

You have Staffordshire chimney-piece earthenware ornaments dating about the 1840s. They are a version of the ever-popular pair, the Tailor and the Tailor's Wife Riding Goats, first made at Meissen in 1740.

GERMAN PORCELAIN MARK
Attached is a rough sketch of the marking on my china bowl. Can you identify the mark and tell the age of the bowl?

H.A.S.—Prattville, Ala.

Your bowl was made at a German porcelain factory started by Beyern & Bock in 1890 at Volksstedt-Rudolstadt, in the forest region of Thuringia. Your mark dates from 1891 or shortly thereafter.

ENGLISH FLOWER BOWL

We have a pair of these vases, but know nothing of their background. I would appreciate any information about them.

A.L.B.—Boca Raton, Fla.

The design for your decorative flower bowl was registered at the London Patent Office in 1888 by Whittman and Roth, who were importers and wholesalers. These bowls are frequently attributed to English firms of an earlier period.

AMERICAN QUEEN ANNE CHAIR

My American Queen Anne chair has stretchers. Is this right? What style do the ball and claw feet represent?

M.J.P.—New York, N.Y.

American Queen Anne style wing chairs were made with or without stretchers. In America, the ball and claw foot is usually associated with the Chippendale style. The Queen Anne wing chair with wings and arms as one continuous unit is a choice 18th-century piece.

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In return you receive a personal history, photograph, plus a description of the Project where your child receives assistance. You can write to your child and your child will know who you are and will answer your letters. Correspondence is translated at our overseas offices.

If you want your child to have a special gift—a pair of shoes, a warm jacket, a fuzzy bear—you can send your check to our office, and the entire amount will be forwarded, along with your instructions.

Won't you help? Urgent requests come from overseas every day. Children wrapping rags on their feet, school books years out of date, milk supplies exhausted, babies abandoned by unwed mothers.

Since 1938, thousands of American sponsors have found this to be an intimate person-to-person way of sharing their blessings with children around the world.

Little Mie-Wen and children like her need your love—won't you help? Today?

Sponsors urgently needed this month for children in: India, Brazil, Taiwan (Formosa), Philippines, Indonesia and Guatemala. (Or let us select a child for you from our emergency list.)
If Colgate is just a kid’s cavity fighter, how come Gwen Verdon won’t brush with anything else?

The Sweet Charity of Gwen Verdon is well known to many people. For even while starring in Broadway hits from Damn Yankees to Redhead, Gwen’s life has been people. Teaching. Working with the underprivileged. Giving. That’s what Gwen Verdon is all about.

Gwen brushes with Colgate, a toothpaste for people who like people. Colgate freshens breath as long as a leading mouthwash as clinical test results show. And the taste is brisk and clean.

Only your dentist can give teeth a better fluoride treatment than Colgate with MFP. But a great cavity fighter can be a powerful breath freshener, too.

If you like people, be sure you brush with Colgate. Gwen Verdon wouldn’t think of brushing with anything else.

Colgate with MFP...the breath-freshening cavity fighter.

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How Jerry Baker grows quick with GRO-QUICK

Jerry Baker, America’s Master Gardener

Now you can grow the plants you used to buy, or start almost any seed weeks sooner. And then enjoy big, beautiful blooms, and home-grown vegetables, weeks before your neighbors.

These GRO-QUICK electric soil heating cables supply gentle, thermostatically-controlled bottom heat, to speed germination and growth of almost all plants, bulbs, shrubs and tree starts.

You can use GRO-QUICK indoors or outdoors in flats, sash boxes, and window boxes. The pre-set thermostat automatically keeps soil at the ideal growing temperature of 74°, yet it only costs a few cents a month to use, and is guaranteed forever.

A lot of professional gardeners call GRO-QUICK "Your underground sun." You can see the dramatic difference GRO-QUICK makes with the petunia plants below.

Both flats were planted 8 weeks ago and treated exactly the same—except the flat on the right got GRO-QUICK. Jerry Baker loves the idea, and you will, too!

Look for GRO-QUICK at your hardware or garden supply store—and enjoy a beautiful, blooming garden weeks sooner.

PERSONAL ENERGY continued from page 16

your feet, if you want to see a snowfall you can turn on the television, instead of actually going out and being in it. Most of the increased standard of living that we talk about has come from providing, without any physical effort, the illusion that you are experiencing the real thing.

What I’m trying to convey is that there are many advantages in our technological society, but that our lives should not be so conditioned that every moment we deprive ourselves of sensations we can have. If you drive through the country and look at nature from inside a car you will lose 90 percent of your ability to smell the air, the grass and to hear natural noises. Try walking and you will find that at first you start to see general things and you hear vague noises, but within 15 to 20 minutes all of a sudden you begin to be aware of many more things. You hear birds more distinctly for example. It’s quite extraordinary how the senses can be readily cultivated by putting yourself outside.

If you use your eyes, you will develop the ability to perceive. Like anything else, the more you use any part of your body, the more it responds. And this adds to the quality of your life. It makes it so much more interesting. The development of the sensory experience is the greatest good one can do for people in the world. But it takes effort to recapture the land. We are going to see much more interesting.

The village community where people can gather and talk to each other and walk to shopping places without too much effort is socially a much better way to live. And this allows for an uninterrupted landscape, open space all around, instead of individual houses spotted all over the scenery. Clustered houses, which many architects are proposing today, has been done very successfully in places like Vail, Colo., and I’m sure it will happen progressively all over the land. We are going to see much change, change in a most interesting way. Before we had energy as readily available as it has been, people had to design buildings in such a manner that they took advantage of natural conditions. For 5,000 years, architects and people have known and built constructions that were comfortable against heat and cold. I’m almost sure that in twenty to twenty-five years the individual house will be powered by local things, sun and wind. And I’m also sure that using more personal energy will bring a healthier, saner world and its ultimate result will be a more creative form of civilization.

Dr. Daniel first spoke on this subject at an energy discussion sponsored by the Scenic Hudson Preservation Conference, an organization which is specifically interested in the preservation of the Hudson Highlands and Storm King Mountain.
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The warmth and individuality of fine, natural finished wood is doing beautiful things in and around today’s super homes; however, like most beautiful things, wood requires special care. To give your wood that special care, without extra work, use Scott’s LIQUID GOLD. Not a “cosmetic,” like common waxes, that simply enhances the appearance of the surface, LIQUID GOLD is a unique formula that cleans, preserves, protects and beautifies nearly any type of natural wood finish. It penetrates into the wood taking the place of natural moisture lost through the actions of heating and air conditioning systems and direct sunlight. This means less fading, shrinking, and checking that rob your wood of its beauty.

Using LIQUID GOLD, you’ll find no wax build-up, residue, or hard surface and, when used on a wax-free surface, it even hides scratches, hand imbedded dirt or finger dust and will remove grease and crayon marks on your natural finished panelling or furniture. It’s easy and really does the job. Something super happens to your home—use Scott’s LIQUID GOLD regularly. Either way you use it, or spray, there’s nothing like it!

*Not recommended for bleaching*
Have you noticed that your kitchen doesn't look as super as it once did? Considering that the kitchen probably gets more hard use than any other room in your home, it wouldn't be too unusual if its glory has dimmed somewhat with use. Scott's LIQUID GOLD COUNTER TOP AND STAINLESS STEEL POLISH & CLEANER can bring the sparkle back. Clean and polish counter tops, stainless steel, range hoods, enameled appliances, ceramic tile and plastic veneer cabinets with ease. Wherever you use it, you'll find that it not only cleans and polishes, but, because it contains no wax, silicones or polymers, nearly eliminates surface build-up that can collect dust, dirt, finger marks and grime. This can't help but mean the surfaces stay cleaner longer, and, of course, less time consuming upkeep for you.

Easy to use? Simply spray it on, wipe it completely dry with a clean, soft cloth, then stand back and watch the beauty shine through. When you're finished in the kitchen, you might want to use it in your bathroom and laundry room—even your car's vinyl top. Use Scott's LIQUID GOLD COUNTER TOP AND STAINLESS STEEL POLISH & CLEANER regularly. It's quick, easy and really does the job.
In recent years household appliances and equipment powered by electricity and gas have multiplied vastly in our homes. So has our dependence upon them. With energy shortages looming does the use of time- and labor-saving devices conflict with the need to save energy? Must we forgo these valuable aids to help conserve the natural power supply? The answer is no, not at all, we're happy to report. And "no person need feel guilty every time she turns on an appliance" says Mrs. Ann Asher who early this year headed an energy study group for Concern, Inc. a nonprofit consumer group.

That's largely because the usual labor-saving devices, such as mixers, blender, vacuum cleaner, use mini quantities of energy. But other equipment does gobble up large quantities. In fact about two thirds or more of the total national energy consumed in American homes and apartments goes for house heating, hot-water heaters, air conditioning and refrigeration according to utility companies. Only one third of total household expenditure is used for all your kitchen appliances and other equipment and for lighting, radio and TV, power tools, and the like.

So if you want to save energy you should reduce the demands of the major consumers. You can do so by following the measures outlined here, by concentrating your conservation efforts upon them.

Saving energy at home is vital because nearly one third of all electrical power generated and one fifth of our national production of all energy is consumed each year in our 75 million houses and apartments. Reducing such consumption is clearly essential and it can also save you money. Energy scarcities are likely to force up the cost of household gas, electricity, and fuel oil as much as 7 to 10 percent a year in the next ten to fifteen years and that would mean that the cost of cooking, running appliances, and heating the house would be twice as much in 1980 as today. Another 50 percent is possible by 1985. Carrying out conservation procedures can also help give you a more comfortable home, one likely to minimize the disastrous effects of possible future blackouts or brownouts.

You can save energy expenditures by these measures: 1. Beef Up on House Insulation. A report from the Office of Emergency Preparedness (OEM) states that "the most significant, realizable measure to affect energy conservation is insulation in homes." Insulating materials are made in various forms; enclosed as batts or blankets of glass fiber, mineral rock or wool, rigid boards or as loose fill and are located in the outside walls, roof, ceilings, and foundations of houses. (A) Ceilings: You need 6 inches of insulation in all top-floor ceilings in a cold climate or with air conditioning. Eight inches is advisable, the number of inches required over a ceiling that has unheated space overhead. The latter can be laid between attic floor rafters, a project you can undertake yourself. (B) Walls: Exterior walls should be lined with 3- to 4-inch-thick insulation even if they are of brick, stone, or concrete block. It is a myth that thick masonry walls insulate; they do not. Installing the insulation is simple in new buildings but insulating existing walls requires a professional to blow the fill into hollow outside wall space pneumatically. Its cost can often be repaid in heating and cooling savings within a few years. If your house has a basement the foundation walls should be insulated 2 to 3 feet below ground level or to the frost line. (C) Floors: The floors of basementless houses should be well insulated. With a concrete slab floor, insulating board 2 to 3 inches thick, should line the edges of the slab around the perimeter of the house. If there is a shallow "crawl" space under your house pack the underside of the floor with 2- to 3-inch-thick insulating batts. And the floor of rooms over an unheated garage needs to be insulated as well.

Continued on page 28
RAND NEW ROSES! Presenting RED MASTERPIECE, the 1974 Rose of the Year — nature's artistry creates the classic rose for spring '74. A wonderfully fragrant deep, deep red hybrid tea. Superb for arrangements!

AND INTRODUCING J&P'S EXCLUSIVE "NEW RACE" OF ROSES — the most significant breakthrough in rose hybridizing since we created the floribunda nearly 30 years ago. New LORA-TEA* ROSES give you gorgeous hybrid tea-shaped blooms on long single cutting stems, but borne in luxurious clusters like floribundas. New "Bouquet-Branching hybrids". Available only from J&P!

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1. **Weatherproof windows and doors.** Window and door frames leak heat in most houses. You can detect the cold, incoming drafts easily and plug up the leaks with weatherstripping materials. Obtainable in hardware and building material centers they are not difficult to install. Storm windows and doors are also excellent conservers of indoor heat and energy savers in cold climates. Use them on the cold windward and north sides of your house at least. And leave them on in summer if you have air conditioning.

2. **Gas company engineers estimate that fuel consumption in winter and air conditioning operation in summer rise 3 percent a year because of children running in and out of the house without closing doors.** Gas company engineers estimate that fuel consumption in winter and air conditioning operation in summer rise 3 percent a year because of children running in and out of the house without closing doors.

3. **Tune up your heating plant.** Just as an automobile responds to loving care with more efficient performance, so will your heating system. So keep it tuned up and clean. With oil heat, seasonal cleaning of the furnace, tuning and readjustment of the burner are virtually mandatory because an untuned burner will cause oil consumption to soar. And although soot removal from inside the oil heater may cost $50 a year, it can reduce fuel bills by a third and save $100 a winter in an average house in the north. Because a gas heating unit leaves less combustion carbon it need be checked only every three or four years. If you have a forced warm air heating system (with grille outlets, heat distributing ducts, a blower fan in a furnace) clean or replace the air filter every two or three months. Also have your service man set your furnace blower switch for "continuous air circulation" or CAC operation. It provides more uniform temperature control throughout the house and avoids the ups and downs that waste heating energy. With a hot water or steam heating system, clean the radiators often, and, in winter, put reflective aluminum foil behind each radiator to reflect heat back into the rooms and not waste it outside.

4. **Lower your heating thermostats at night.** By turning your thermostat down 5 to 10 degrees you can reduce fuel consumption and save 10 percent or more of your total winter expenditure of fuel. But such savings depend greatly on outdoor temperatures. The milder the nights, the greater the savings. The greatest benefits occur when outdoor night temperature is about 30 degrees; energy saving declines when nighttime temperatures drop sharply because of the extra heat required to warm up your house the next morning. So if your thermostat is set in the sixties at bedtime and the temperature goes to zero outdoors you won't conserve any energy. It isn't wise, moreover, to turn down the thermostat at all on 10-degree nights. Or to lower it for possible 20-degree temperatures even in an exceptionally well insulated house. You may save fuel but you could damage the heating plant by a sharp start-up acceleration next morning. You need not keep changing the thermostat at all if you have a clock thermostat, which automatically lowers the house temperature at night and turns it up at a preset morning time.

5. **Ease up on hot water use.** Next to your heating system the hot-water heater is the greatest single user of energy in the house. So the less water you heat and keep heated, the more energy you'll save. Turn down the thermostat setting on the water heater to "medium" or lower. It will produce 130 to 140 degree water, which is enough for all ordinary purposes. (The dial is usually located at the front, at the bottom of the unit.) A typical dishwasher needs hotter, 150 degree water, but usually has its own integral heater.

Good household habits can also help save energy. Remember that cold water can be used for washing many clothes; showers take 25 to 50 percent less water than filling a tub; leaky faucets waste energy as well as water. You should also check the hot-water heater pipes and insulate them to insure fast response at hot-water faucets.
Skin Life…
works with your natural skin cycle. Smooths away the years. Makes your skin feel renewed and revitalized.

Your skin has a life cycle all its own. The surface cells wear away while new, fresh cells work their way up from below. So your face should always have a glowing surface. But sometimes Nature’s plan needs a little help. And that’s what we have for you—with our Skin Life Beauty Treatment.

Skin Life contains GAM, our exclusive protein substance imported from France, which is comparable to the natural protein of the skin. It’s this natural protein that helps keep skin toned, maintains moisture, prevents wrinkles. So that just a little Skin Life used every day will help keep your skin looking fresher, brighter, younger. And that’s a promise.

Helena Rubinstein

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THE 1974 HOUSE & GARDEN SUPER KITCHEN AND SUPER BATH

Super Kitchen

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For more ideas on how you can incorporate new concepts into your own remodeling or rebuilding plans, we invite you to see the advertisements of the following companies participating in this issue.

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For further details about other products featured in Super Kitchen and Super Bath, check the Shopping Information pages.
Just to look at it, you’d never know our Retained Heat Oven is a 64 year old conservationist.

John Chambers invented the concept of Retained Heat® Cooking in 1910. Sixty-four years later his idea makes more sense than ever. The Chambers Retained Heat Oven uses less fuel than ordinary ovens. And with decreasing energy supplies costing increasingly more, that’s important indeed. Conserves energy and your pocketbook, too.

Retained Heat Cooking is simple.

As simple as ordinary cooking methods. The Retained Heat Oven is large enough to cook an entire meal all at once—meat, vegetables and even dessert. Requires no attention after the first few minutes; cooks with the fuel turned off.™ Holds food for hours without overcooking.

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Simply put your complete meal in the oven in the morning and take off for the rest of the day. When you’re ready to serve that night, so is your food—moist, delicious and piping hot. No more basting, pot-watching or last minute rush. And of course, your oven self-cleans at the turn of a knob.

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JANUARY, 1974
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Time was when wood finishing was a long, arduous task. Today, Cabot's Stain Wax does the job in a single application. This unique "three-in-one" finish, suitable for all wood paneling, brings out the best in wood, enhancing the grain and producing a soft, satin finish in your choice of thirteen colors plus black, white, and natural. When a flat finish is desired, use Cabot's Interior Stains.

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Enclose $25 for Cabot handbook on Wood Stains.

A typical self-cleaning oven uses less total energy a year than you'd suspect. Based on one cleaning cycle per month it takes only about 20 to 30 kilowatt hours of electricity a year or 2.5 kilowatt hours per month according to the Association of Home Appliance Manufacturers. That applies to a pyrolytic type of oven. Actual power consumption is 60 kilowatts a year but at least half of that is offset by savings gained by the oven's high-efficiency insulation. So a self-cleaning oven may be well justified, particularly if you balance it out by saving power on the major energy consumers in the house. In considering electrical appliances you should know that there are two basically different kinds. One turns electrical energy into heat and would include the hot-water heater, range, toaster, coffee maker, and hair dryer. They generally require large amounts of operating electricity. Electric motor-driven appliances, such as the mixer, blender, dishwasher, vacuum cleaner, are the other kind where a motor accomplishes a great deal of work from a comparatively small amount of electrical energy. Many labor-saving appliances are motor driven and there is no need to feel guilty about using them if they are properly and efficiently operated. But don't leave a heat-from-electricity-coffee maker on the cooktop all morning. You could run your dishwasher through two or more complete washing cycles with the amount of energy you would save.

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7. Be energy conscious when you cook. It is important that you operate ranges correctly and follow sensible cooking practices in your kitchen if you want to save power. Reread the range instruction booklet (or send for a new one if you've lost the original enclosing the range model number and 50c). This is particularly wise with an electric range and oven, which have an astronomical appetite for power consumption. Efficient operation of the range consists mainly of basic, familiar rules: Don't leave the heating elements of the range top or oven on after cooking; don't over-hast, over-foil, don't oven peek and let out heat, use flat-bottomed, straight-sided pans that make full contact with the heating elements especially with an electric range.

Continued from page 28

HOUSE & GARDEN
He sacrificed his sanity and his life to see and to paint as no one ever had before.

The World of Van Gogh

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TIME-LIFE Library of Art

Van Gogh sought peace in painting this church at Auvers.

Many other artists, such as Gauguin, are represented.

He tried to express his feeling for man and nature by becoming a minister, but his fervor alarmed his superiors. He fell in love with two women of his own class and they fled from him as from a dangerous lunatic. The famous incident in which he cut off part of his ear and gave it to a prostitute was only one more attempt to give something of himself to anyone who would accept it.

This torrent of emotion—for which society had no use—turned Vincent Van Gogh into one of the greatest painters of all time. Never has a man poured so much pure responsiveness into his art. You can see in it everything from salvation to suicide. Sacrificing his sanity and his life to his work, he burned himself up in a blazing perception...in a controlled riot of color that washed over modern art like a tidal wave of lyricism.

Love, for Van Gogh, was a means of seeing...of fusing himself with his subjects. Even the lavish way he squeezed a tube of paint directly onto his canvas symbolized a generosity that knew no limits. To the humblest subject—an old pair of boots, an empty chair—he brought the special light of his own fervor. As one critic put it, Van Gogh had the courage to look the sun squarely in the face and steal its radiance.

Beside almost 1,700 works of art, Van Gogh also bequeathed to the world—in 661 letters to his brother—one of the most moving autobiographies ever written. It shows this dauntless man trying to learn Greek in order to be allowed to preach to Dutch coal miners. You find him, his hatband stuck full of candles, painting the stars at midnight. You trace letter by letter, canvas by canvas, the collapse of his sanity and his subsequent suicide.

The World of Van Gogh is your introduction to the Time-Life Library of Art...a magnificently illustrated series that shows you—and helps you appreciate—the most important achievements in 700 years of Western painting and sculpture. Focusing on a major artist such as Michelangelo, Rembrandt or Picasso, each volume is a splendid exhibition, a thoroughly reliable reference work, and a most enjoyable way of increasing your family's awareness and understanding of art.

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Written by Robert Wallace, The World of Van Gogh is 9" x 12", 188 pages, with 180 illustrations, many of them full- or double-pages. To put Van Gogh into perspective, the book also offers profusely illustrated chapters on Gauguin and Toulouse-Lautrec, as well as examples of Cezanne, Degas, Renoir, Monet and others. For all its brilliant features, The World of Van Gogh costs only $6.95 plus shipping and handling. With it, you will receive a specially written 3,500-word essay on art history...plus a large, full-color chronology chart listing 908 major Western artists.

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HOUSEHOLD ENERGY continued from page 34

which is twice as effective as indoor window shades, Venetian blinds, and curtains. But don't omit the latter because they also contribute to keeping down the heat load inside. Windows facing east need shielding just as much as western windows. The morning sun pours as much heat into the house through them as it does into west windows in the afternoon. Adequate ventilation helps to keep down the heat load indoors as well so be sure any attic spaces are ventilated, turn on the kitchen exhaust fan to rid the house of heat and vapor produced by cooking, make certain the clothes dryer is vented to the outdoors. Don't turn off the air conditioning system when you go out of the house during hot weather. If it operates at a moderate level around the clock it should consume no more power than if you shut it down. This may seem illogical but it will take considerable extra energy to remove the heat accumulated during your absence, more than if you leave it on a moderate level. A compromise measure might be to raise the thermostat a few degrees for less cooling power when you are away. Then it won't overcool. Another consideration is that if you return to a hot house in late afternoon, the energy demanded to cool it down may come during the peak load time for the power company's electric generators.

In selecting a central air conditioner or a room cooler get an energy-conserver model. It, too, like the new energy-conserver refrigerator, saves power and operating expense. Manufacturers of room units are now listing the "energy efficiency ratio" of such equipment, an invaluable index of the ability of the conditioner to convert electrical power to cooling. In the name plate of the unit, its cooling power, expressed in BTU's (British Thermal Units), and the electric power in watts needed to operate it are indicated. Dividing the cooling power by the watts will give you the energy efficiency ratio of the conditioner. The higher the ratio the better because a high ratio means more efficient, less wasteful energy consumption and less operating cost. The best units have efficiency ratios of 10 to 12 and you should not choose a central air conditioner of less than 7.5 energy efficiency ratio or a room cooler of less than 8.5 energy efficiency ratio.

Here's a check list of additional energy savers for the house, some called from the University of Illinois Bulletin, Living with the Energy Crisis.

Fireplace dampers: Close them when not in use to keep in heat. Glass fireplace shields also help. Loss of warm air to the outdoors: Keep open windows and doors to a minimum in winter. Enough outside air filters through the average house generally to late. Shutting off unused rooms: Close off unused rooms and shut off the heat supply to them. But don't let room temperatures drop below 40 degrees (to prevent frozen pipes), and don't close off return air grilles or more than 5% of the house registers in a warm-air heating system. Lowering house temperatures: Test how many degrees you can lower your thermostat without feeling uncomfortable. For each degree reduction you save about 3 percent on fuel consumption and cost. Operation of ventilating fans: In winter don't overdo operation of ventilating fans in kitchen and bathrooms; they remove heat from the house.

Heating the garage: Heating should be minimized or, if acceptable, eliminated. Lighting: Room lighting can be lowered for energy saving and shut off when not in use. Fluorescent or krypton gas bulbs consume less energy and last longer. Water conservation: Conserving water in bathing, washing, cooking, or gardening reduces the energy needed in pumping it. Cooking: Cooking several dishes in the oven at one time is more energy efficient than using several surface units.

Windbreak planting: A stand of trees, evergreens, or fences can help shield your house from winter winds and cut down heat loss and save heating energy. Deciduous trees planted to shade windows in summer will not only reduce air conditioning needed to cool the house but, when they lose leaves, they will also admit sun in doors to warm it in winter. ■

At leading stores everywhere. Permanent displays may be seen through your dealer or decorator at 964 Third Ave., New York City. Merchandise Mart, Chicago.

Send 75 cents to Department G for brochure, "Furniture for Gracious Living"
A growing number of women are leading successful double lives, Thelma Turkel is one of them.

She spends most of her day cooking, cleaning, chauffeuring, and looking after her family in a lovely suburban town.

But for two or three precious hours she lives in another world, enjoying all the excitement and rewards of a career in Interior Decorating.

It's a shame more women don't take it up, as an enjoyable way to make money.

As an interior decorator you never have to punch a time clock or drag yourself through a 9-5 day.

You can set your own schedule. You can work in your spare time. Your office and "showroom" can be your own home—furnished at your special decorator discounts. And if you do work at home, your accountant can show you how to legitimately deduct from your income taxes all expenses necessary to running a business, including your "home office."

You can even take your career as an interior decorator with you if you move. There are countless openings—highly paid jobs (part-time or full-time) to be found throughout the country as the interest in home furnishings continues to boom. ( Forbes magazine calls it, "perhaps the hottest growth field of the 1970's."

Train at home

Perhaps, you have considered this as a field you would like to get into someday. There's no reason to wait any longer.

If you're serious enough to spend a few hours a week preparing for this exciting career, you can now get a thorough training program—in your own home.

Today, ICS, America's oldest home-study school offers a complete, practical and up-to-date program in Interior Decoration and Design.

The entire program is based on the experience of John Gerald, founder of one of America's top-light decorating firms.

And you can be sure there's no dull, dry text. Marguerite Rittenhouse, Ph.D., a well known educator, worked closely with Mr. Gerald. She also checked out every lesson with untrained but interested women, as well as sales people in furniture departments and decorating shops to make sure each idea or way of working is not only interesting but logical and easy to follow.

Right from the start, you work with top-notch professional equipment. Templates, sketching materials, architect's scale, folding rules, T-square, triangle, fabric swatches and color charts are included in the material you get. (The basis for your business workshop later on.)

Ways to make learning easier

You also receive: a three-dimensional viewer and 130 slides that put you "inside" rooms; and a cassette tape player with tapes—modern audio-visual learning aids that bring your lessons dramatically to life.

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You'll master all the principles of Interior Design: form, proportion, scale, balance, and unity.

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Your friends will first notice the difference in your own home. You'll know it from their comments. Your advice will be sought.

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Although you work at home, you're never alone. You can call ICS—Dial-a-Question—toll-free—any time of day or night—to ask any questions about your studies.

Interior Decorating is an ideal part-time career that can grow into a full-time job when you're ready. And ICS is the ideal way to study—at home.

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To find out whether becoming a well-paid interior decorator could give you a more interesting and rewarding life, simply mail the attached card today. We'll send you by return mail "Should I Become an Interior Decorator?" a helpful booklet containing the questions you probably have on your mind right now and detailed information that will help you answer those questions.

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LA643Q

JANUARY, 1974
Ceramic Tile.
It's the classic example of "you get what you pay for."

If imitation of your product is the sincerest form of flattery, ours has certainly been flattered.

Because ceramic tile has been imitated in every conceivable form of synthetic material.

However, the fact remains: none of them looks as beautiful, feels as luxurious, cleans as easily, or lasts as long as ceramic tile.

In other words, those materials that try to look like ours end up looking just like what they really are: cheap imitations.

As you can see in the photo on the left-hand page, the most beautiful bathrooms built today are still made with ceramic tile.

Yet, a lot of substitutes get into bathrooms these days because they're supposed to be cheaper.

But if you'll take a good look at some five-year-old bathrooms using some of these substitutes, then you'll see why they're cheaper.

So, while you may save money with ceramic tile "look-alikes" in the beginning, you'll probably spend a lot more in the end on replacement and remodeling costs.

Probably the last place you've thought of using tile is the first place people see when they come into your house. The foyer.

The effect can be spectacular. But the beauty of ceramic tile doesn't outshine the practicality.

Muddy footprints wipe clean with a damp cloth. And, of course, it never has to be polished.

That's what makes it perfect in hallways and foyers, where daily traffic can wear a path in the best carpets in a short time. And that gets costly.

If ceramic tile makes sense on the floor, you can imagine how much sense it makes in a kitchen — on walls, countertops and splash backs. More than any other materials, tile resists scorching, fading, burning, warping or cutting. And Acri-fil, a new joint filler, resists staining and chipping.

But ceramic tile can do more than make your kitchen practical. A mixture of textures, colors, and designs can make it sensational.

So if you don't want to end up with a kitchen just like the folks next door, that alone should make ceramic tile worth considering.

But there's another place that ceramic tile makes a lot of sense.

And that's the great outdoors.

Frame your front door with it. Make a garden path with it. Use it on your porch. Your patio. In and around a swimming pool.

If you're thinking that ceramic tile can cover almost anything, you're right. Which makes it one of the most versatile remodeling materials ever.

And the money put into it is a real investment, because if you ever sell your home, ceramic tile can make it look like it's worth a whole lot more than your asking price.

Now we've told you just how durable ceramic tile is. And here's a classic example: the Imperial Mosque of Isfahan, Iran. One of the old world wonders of architecture, the Mosque exterior is decorated in ceramic tile floral designs and swirling arabesques, each still intact and beautiful after more than 360 years of exposure to the temperatures of the Middle East.

Yet with all of its advantages, tile is sensibly priced. (So you don't have to be the Shah of Iran to afford it.)

For a beautiful full-color book that's filled with pictures and ideas for decorating every room in your house, just send 25¢ and this coupon.

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I'd like to see more. Enclosed is 25¢ for your book.

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Tile Council of America, Inc.
HOME IMPROVEMENT IDEAS FOR THE HOUSE FIXER

by Will Morris

The Shower Massage by Water Pik is a new showerhead for massaging as well as showering and shampooing. It has an outside ring you turn for a regular shower and a dial that allows you a choice of spray or massage, a combination spray-massage (good for facials), or any in between action. Adjustable center holes can deliver 800 to 9000 pulsating jets of water per minute for soothing or stimulating massage, gentle or tingling shower. The chrome finished wall-mounted model and the hand-held model, with a 60-inch chrome hose, can be attached to standard 1½-inch shower arms. The hand-held model can be hung as a stationary showerhead or used flexibly bathing in the tub. Teledyne Acqua Tec.

If you are building or remodeling, new Sheetrack gypsum panels are available with an aluminum foil backing, which acts as a vapor barrier. In winter it prevents the indoor moisture created by cooking, washing, bathing from passing into cold outside walls and condensing into water, which can rot wood framing and sheathing, warp exterior siding and damage paint. In summer it works in reverse and keeps out humid outdoor air, which would increase humidity indoors. The "Foil-Back Sheetrack" panels also provide some insulation for outside walls and equal 1½-inch-thick wood fiber insulation or 1-inch mineral wool. United States Gypsum Co.

Leaving outside doors open in your house lets out heat in winter and air conditioning in summer and raise your bills. Since children will race in and out thoughtlessly, Jaafri Industries has come up with automatic door closers for sliding glass doors and sliding screen doors. They also help keep out insects and let you walk in and out with your arms full. The Sure Close Automatic Closers, one for sliding doors, one for sliding screens, can be attached to the top rail of a 36-inch or 48-inch sliding glass door or screen and work with a simple spring in tension. A special screw at one end of the unit also lets you regulate and vary the closing speed of the doors and a stop washer will keep the door open if you wish. Prices are $10.75 and $13.50 for the 3- and 4-foot screen door closers, $13.25 and $21.50 for the 3- and 4-foot glass door closers.

A plan for a simple rack to store skis is offered by the Louisiana-Pacific Corp. It requires only an 8-foot length of 2-by-4-inch Ponderosa or Douglas fir and a 3-foot-long single wood dowel. Only ten steps are necessary to cut, fit, assemble, and finish the rack and they are clearly outlined in the plan. Long enough to attach firmly to a minimum of two studs on a typical wall, the rack will hold five pairs of average-sized skis and poles and could be put together with hand tools by a do-it-yourselfer or with power tools. Detailed construction plans are 10c from Louisiana-Pacific Corp.

For ski houses or other weekend retreats a prefabricated, woodburning fireplace is a major asset. The Majestic Co.'s "Jupiter" is a conical shaped steel unit available in three sizes (with hearth openings of 24-, 30-, and 38-inches). There's a choice of red, gold, green, orange, black, and white enamel finishes in the two smaller models, while the 38-inch fireplace is in matte black. The new mesh fire screen rolls back on tracks for full access in placing logs. The fireplace is in three parts—base, conical fire chamber, chimney pipe for 8-foot ceilings.

Cleaner indoor air is an urgent need these days since technical reports indicate household air may be more polluted than the atmosphere outside. The new "Space-Guard High Efficiency Air Cleaner" for central forced air heating and cooling systems, mounted in the return air duct, has deep space folds, which provide 78 square feet of filtering surface. With continuous blower fan operation of your heating or cooling system, it claims to remove as much as 99 percent of pollen and spores, and up to 90 percent of tobacco smoke and airborne dust. It uses no electricity and needs no wiring for installation. The only maintenance is replacement of the filter about once a year, which you can do yourself. Research Products Corp.
If Colgate is just a kid's cavity fighter, how come Angie Dickinson won't brush with anything else?

For some actresses, life is only real when a director calls, "Action." For Angie Dickinson, blessed with family and rich with friends, life is truly meaningful when she's with the people she cares most about. Caring about people comes naturally to Angie. That's one reason she brushes with Colgate.

Clinical test results show Colgate freshens breath as long as a leading mouthwash. And the taste is brisk and clean.

Only your dentist can give teeth a better fluoride treatment than Colgate with MFP. But a great cavity fighter can be a powerful breath freshener, too. Ask Angie Dickinson. She wouldn't think of brushing with anything else.

© 1973, Colgate-Palmolive Company

Colgate with MFP, the breath-freshening cavity fighter.
The Parliament recessed filter.
It works like a cigarette holder works.

Inside every Parliament tip there's a filter that's recessed. Tucked away from your lips. So you don't taste the filter. Just the good, clean flavor.

The Parliament tip. It may not look like a cigarette holder. But it works like one.

FORECAST FOR 1974

A new year is the traditional time for forecasting, and as we look into the future trends in architecture, decorating, and design, into upcoming ideas for entertaining, traveling, and spending our leisure and pleasure, we anticipate a factor that will be common to all. The attempt to simplify living all around us. It is evident in furniture design, where one piece of furniture may serve three or four functions. And in planning interior space, where one room may become a center for many activities.

You see it in the way people dress, in the current insistence for simple things, natural things, basic things.

The new search for reality in living that is becoming so evident today may have been inspired by some people with their romantic, idealistic way of retreating to the countryside to get up farms. Though what we now see is a more positive plan to confront the issues and to define principles that will reconcile all the contradictions. Closing the gap between the way we live and how we want to live. We seek honesty and a sense of quality, whether it's in a piece of fabric to cover a chair or the food we eat or a plan for a new city that works. We're looking for practical and sensible measures to deal with the environmental crisis and the energy dilemma. And sorting out our priorities in the process, rethinking criteria and ethics. The man of today is thinking more for the man of tomorrow. Are neon advertising signs really necessary? Can we afford to build sealed-in skyscrapers that demand so much energy? Could a more intensive exploitation of our current technology provide a system for solar heating, cooling, and lighting such buildings?

We are thinking up the questions—and coming up with some rational answers. "We have the same need in every aspect of our whole life, to live in a more realistic way," says architect and city planner Roberto Brambilla, director of the Institute for Environmental Action, who will be launching an exhibition "More Streets for People" during 1974. "I would call this philosophy a sort of new humanism. We see that traffic mobility occurs on the surface in most city centers at an average speed of 3 to 8 miles an hour in the rush hours—and we know this is ridiculous. You can walk that fast. We know we have to change. What we are turning to is a simplified existence, which is also richer at the same time, taking maximum advantage of existing resources but at the same time trying to emphasize as much as possible the potential of people."

We have made living with reality the theme of our first issue for 1974. And we stress that the simplified existence doesn't mean a spartan existence. What is more esthetically satisfying than walking barefoot on grass? Our new Super Bath is a tribute to architectural and building know-how that allows for this possibility in your own house, page 78. So you'd like a kitchen-living-entertaining center that really gets it all together—the bar, the music, the laundry, the sewing, the tools for little domestic repairs, the paperwork corner, the proper space for food preparation, the snack for two or the dinner for twenty? Our new Super Kitchen, page 61, is planned with all this human activity in mind and equipped with machinery that saves energy, not only yours, but ours—the energy that belongs to us all—in the planetary sense.

And on this urgent subject of fuel and power, we have four reports...from a couple in New Mexico who designed and built their own solar-heated house, page 72, from Dr. René Dubos, page 16, who tells us we'll all be happier in the long run if we adjust to pushing fewer buttons and riding fewer vehicles...from A. M. Watkins who points out eight major ways to conserve energy at home now, page 24, and from some of the top technologists, page 70, who are looking at the future supplies realistically and working out alternative power sources.

"There comes a time," adds Roberto Brambilla, "when you know you have to clear the table, see what your real essentials are and put them back in order. The moment we start to surround ourselves with reality, then we begin to think with reality. We plug our energy into the right things, put our potential creativity in directions where it is really deserved." What all this seems to offer is a much more coordinated, clearer kind of life, which will be very much worthwhile living. In reality, what could be a better prospect than that?

A GREAT NEW WAY TO LIVE
DECORATING THAT COMES NATURALLY
One big room that’s filled with COLORS AND TEXTURES FROM NATURE

Pale gold furniture woven of bamboo, rattan, wicker, straw . . . . cottons handprinted in the blues you find in gardens—gentian, delphinium, iris, cornflower . . . . a mosaic of glowing handmade rugs, each old, each different, on a blue-black slate floor. Nothing matches, everything cooperates. This is decorating that comes naturally because it’s put together with materials and colors pulled straight from nature. Because it echoes and enhances the architecture of the light-filled, beautifully proportioned room. Because it grows out of the life that’s lived in the room. It’s easy to care for, flexible, comfortable for two or for twenty. Right: Floor plan of Prince and Princess Wittgenstein’s living room with its inventive arrangement of furniture. Birgitta Wittgenstein was her own decorator.
NATURE IN A WHITE SHELL

To make the blues bluer and the tawniness of the furniture tawnier, the entire room—walls and tray ceiling—is painted the purest of chalk whites, marvelous seducer of sunlight. The furniture itself is a triumph of second-hand shopping. The one new piece is the banquette-sofa, right, which was made locally. Very long, it has its center section “carved out” to hold cushions, and the extensions at each end are for books, flowers, and magazines. Hung over it are two paintings by Penati, and hung at the windows on natural wood poles are the simplest possible curtains of white sailcloth. On the wall, what look like sawed-off umbrella tops are straw coolie hats. “We ran out of pictures.” Since this is a room to talk in, the furniture is arranged in conversation islands linked by the placement of the old kilim rugs. The groupings are flexible, can be rearranged so that twenty-four people can dine, buffet-style, in comfort with a place to put things.
Decorating that comes naturally

A HILTOP HOUSE full of sun and serenity

A house that revels in natural delights, that seems to glow with walls the color of corn silk, floors stained a satin brown, then textured with raffia straw matting, cedar wood stumps for tables, and country basket chairs, all a happy blend that brings in sun and light and simplicity. Designed by Michael Taylor, the house owned by the Steven Merrills is halfway up a hill, with rooms like serene islands in the middle of fantastic views: all the big windows have a sweeping view of San Francisco Bay and the Golden Gate Bridge. The sitting and dining room, left, with its 12-foot ceiling, centers around the fireplace, with a great soft sofa, cozy chairs, a long wicker bench settled by the hearth. The chamois and white cotton print is the only pattern, the rest is wonderful textures of straw, wood, and stone played together. Oak is the base of the coffee table; a stone inset makes the top. Lots of fresh flowers, shadowy fan-tail palms are all part of the room’s delight with nature and natural things. Long view of the room, below left, taken from the entrance, ends in a floor-to-ceiling window, shaded with a bamboo blind. The small dining arrangement, below right, is composed of reed basket chairs around an octagonal table made of cast stone. The sideboard is an old refectory table, basking under a rosy painting of sunrise colors. The upholstered furniture, tables, and lamps, designed by Michael Taylor. Painting is by John Hoyland. Over the fireplace, black wood, horn animal head, Giacometti. Fabric by Brunischw & Fils.
A hilltop house

THE FEELING OF EASE AND CHARM

Dining room, above, radiates its own charm, with a great round table skirted with batik and circled with rough-hewn hickory chairs. Straw matting underfoot, a Japanese paper lantern overhead, and always a big basket of flowers on the table complete the ambiance. Sweeping stairway, right, carpeted with moss green, is flooded with light from windows.
Blond ash latticed into a frame for a bed. From Italy, see below.

The canvas rage goes from steel-framed sling chair, above, by Varichon for Atelier A, to the movable, mixable pillows, below, in brown and natural. You tie and untie them to make seating. "Pillorama" by Otto Zapf for Knoll Overseas Ltd. Apple treetrunk table, above right, Luten, Clarey, Stern.

Based on latticework, a system of glass-topped tables and seating in super blue denim. Above, a console, below, the three-seater sofa, and a coffee table, below right. From the "Brusadelli" Collection by Paolo Lanzani and Franco Menna for Base Interiors.

Outdoor room, canvas, with pillowed floor. "Eta Beta" by Eduardo Vittoria for Societa Anonima Castelli.
Look-ahead furniture with the soft touch
As an antidote for hard-edged city living, we find designers are creating sympathetic curves, furniture that's soft and soothing to touch. Cushions to sink into, satiny smooth tables. Comforting things to make us feel good.

Put-together foam wedges make a great circular seat. "Teorama" by Giovanni Guazzo for Poltrona Frau.

If you need an extra bed, the "Flap" obligingly unfolds. The single cushion, which makes its seat and both arms, above, becomes a comfortable mattress, see below. Altogether it boasts eight different angles, from easy chair to feet-up chaise. Slipcovers of red or blue ticking zip off for cleaning. By De Pas, D'Urbino and Lomazzi for BBB Bonacina. Shopping information, page 103.

Puffy chaise. Geoffrey D. Harcourt for Artifort at Turner Ltd.

Table plus storage. Satiny bleached ash, rimmed and topped in red Formica. By Gilles St. Gilles.

Mobile vanity, a teal blue tower of many drawers. Two mirrors, one on top, another midway. By Giovanni Offredi for Saporiti.
Glass disc on a simple cross of solid walnut makes a coffee table. By Trigoso for Atelier A at Maplewalnut Studio.


Expandable table, two glistening rectangles of brass, one gliding across the other, below. By Gabriella Crespi.


Fine geometry, left, a U-shaped table of clear and frosted Plexiglas. By John Harris, at Lufen, Clarey, Stern. Two discs of foam pressed together into a "Blub-Blub" chair, far left, with an orange stretch jersey skin. By Pierre Paulin for Artifort at Turner Ltd. Below, neon lights up a Plexiglas table by Jean Degottex at Galerie-Boutique Germain.
Look-ahead furniture, great shots of color

Shell chair, above, of natural rattan with caramel leather seat. By Giovanni Travasa for Vitorio Bonacina.

Capsule bathroom, above center, is a single, easy-to-install unit of molded fiberglass. Designed by Carla Venosa.

Molded fiberglass base supports a slice of glass rimmed with orange. Table by Gilles St. Gilles for Turner Ltd.

Pow! After you've settled down with natural textures and soft touches, comes the dazzling, single shot of color to wake everything up. You can inject it via movable pillows, seats or a fabulous table or an extraordinary chair. Whatever you choose, color makes the room you
Changeable table with fourteen possible positions. By Bruce Arzig at Mixed Media Design.

Sectional seating, foam, slip-covered with brown and black print. By De Pas, D'Urbino and Lomazzi for Zanotta.

Push-around pieces, above, below, and opposite page far left, in a rainbow of stretch jersey knits, can furnish a whole room. The covers of these foam components close with a drawstring, duffle-bag fashion. "Canapouf" at Boutique Canapouf. For shopping information, see page 103.

More and more, these liberated days, the kitchen is a cooperative in which everybody wants to take a hand. Warmth and comfort originate there as well as food; families gather there naturally; when friends drop by everybody drifts there to settle for good talk. It is the new heart of the house—and the first and best place to start a concerned campaign to save energy—in both its senses.

The world's dwindling supply of fuel, your own personal reserves of power are precious resources that careful planning can help preserve. In the huge space of a made-over barn, House & Garden, with the American Gas Association and Evans Products, has designed a room where food and its preparation, companionship and its enjoyment—and conservation—are taken seriously.

where
the family

gathers
OF THE HOUSE

where the cook holds forth
Saving energy, these days of worldwide problems, means cutting down on gas and electricity consumption. Major kitchen appliances are the most greedy household machines—so let’s start there. The Chambers gas range, below, has a patented system of sealing heat in the oven, so a meal can finish on its own retained heat, after the cook or automatic timer turns off the fuel. The co-Ford refrigerator/freezer has special wall insulation and a thermostatically controlled motor that uses about a third less electricity than comparable models.

Six inches of Fiberglas ceiling insulation holds in winter heat, summer cool; Naturalite skylights help replace artificial light. The Andersen Perma-Shield window door, right, seals comfort in. An everything-in-one kitchen also saves personal energy: fewer steps for the cook, less trouble to keep. The tough Armstrong Excelon tile floor resists wear; the beams and posts from Vermont Barnboard cedar Weatheredbord paneling by Evans are easily cared for; the Riviera curtains, the Kohler sinks and appliances are colored to match and disguise smudges.

TOM YEE

a refrigerator that runs on less electricity

a range that won’t waste gas
How to conserve the energy you have

Here are a few hints to help you use the appliances you have most efficiently, with the least energy:

Stove: Put small pots on small burners; cover to avoid heat loss. Use oven for complete meals; preheat only 10 minutes; don't peek. Thaw food before baking it; avoid using aluminum foil on shelves directly under pans since it can reflect heat away from them. Wait till oven really needs it to use self-cleaner.

Refrigerator: Locate it away from heat sources, out of sunlight. Make sure door seal is tight (it should hold a sheet of paper firmly). Cool food to room temperature before refrigerating. Defrost when ice is about 1/4-inch thick.

Freezer: Keep it full; a solid mass uses less energy to keep freezer cold. Chill the food before you freeze it. Don't freeze too many packages all at once.

Hot Water: The hot-water heater uses enormous amounts of energy, so be stingy with hot water. Set its thermostat low. Don't wash dishes under running water. Use as cool a setting as possible for clothes. Wait till dishwasher is full to use. Fix leaky faucets: a drip a second wastes 700 gallons a year.

Washer and Dryer: Clean the lint traps often to keep the appliances working at top efficiency. Use only when full (but not overloaded), and use as cool a setting as possible. Don't over-dry clothes—and use the free solar energy outside whenever possible.

Small Appliances: These can often substitute for major appliances when the job is small. An electric fry pan, for example, uses less energy to cook a one-pot meal than an electric range. Motor driven ones like mixers, blenders are particularly economical.
the new super kitchen: WHERE ENERGY WORKS TO SAVE YOU
Creature comfort, that warm snuggly feeling that makes you remember grandmother’s house even if grandmother never had one, is a specialty of kitchens, an intangible compounded of details like old Indian baskets, wooden walls interrupted with stretches of books and a finish of Evans “Bright-Ons” in House & Garden Tangerine, as well as of friendliness and good will. Personal ease is part of it. The hard-working appliances, easy furniture, and green living plants all contribute. Another ingredient—a stereo system with two speakers that puts you in the middle of the music—makes energy-conserving virtue anything but grim. Furniture from Pennsylvania House, upholstered in “Kalmia” by Clarence House.

efficiency with comfort built in

It’s an absolutely up-to-date room that still cherishes hints of history like the made-to-order patchwork quilt, from Such Outlandish Stitches, on the sofa. Tucked behind the wall paneling, the entertainment center, also has a television set (doors closed), room for tapes and records. All by Sanyo. The carpet from Harmony Carpet. Animals, antique platters from John Rosselli. Sterling lighting; Tru-Test paint used.

“A place for everything and everything in its place.” So neatly arranged, every detail has its own function and its very own space. Instead of a fourth burner, the Chambers range has a second oven for small baking that also works on retained heat to save fuel, and a range-top broiler that becomes a griddle, just out of sight to the left. Flush doors left of the refrigerator conceal a larder with shelf room for everything. KitchenAid hot-water dispenser makes easy instant cocoa, coffee, bouillon, to serve in Stangl mugs. To the right of the refrigerator, storage cabinets hold pots, pans, even a roaster. All cabinets by Riviera, paneled in Evans “Bright-Ons.” Side-by-side Philco-Ford refrigerator/freezer holds 20.7 cubic feet, more than 250 pounds of frozen food. Baskets on top from Stephen Barany. Cabinets hold homey Stangl “Green Caughley,” elegant Spode “Summer Palace.” Dishwasher is by KitchenAid, the front panel custom finished to match sinks, range. Beside it, a handy drawer for measurers, molds.
Children's sunny corner, is strewn with toys that are stored in drawers underneath the daybed. "Tulip" quilt and patchwork pillows from Such Outlandish Stitches; needlepoint pillows from Woolworks; blue and white footbath on secretary from Garvin Mecking; poster, Foster Originals.

See page 140 for laundry details. Shopping information, page 103.

The whole house has a built-in vacuum system hidden behind flaps painted to disappear into the woodwork. Dust is exhausted outside, eliminating bags and filters. Motor is tucked away in the basement. VacuFlow system from H-P Products. Another built-in, four-place toaster fits between standard studs, deals with rolls and muffins, too. By Edison.


Island has room underneath for an appliance that goes with last-second food preparation. Hot-food server from Edison. Beside bar sink, automatic ice-cube maker from Sub-Zero. Both server and ice maker paneled to match cabinets. Sixteen standard attachments, four optional ones, plug into one fold-away power unit. Ronson Foodmatic Food Preparation Center. Countertops, Parelyte "Natural Butcher Block" plastic laminate.
Energy crisis? What energy crisis? It’s true that it’s a little chilly around the house this January. And probably next January. And the January after that. It’s true that our national need for energy is escalating (7 percent last year alone) a lot faster than available sources of energy are, that our oil imports will be 50 percent of our consumption in less than ten years—and that we can’t control the production in countries it will have to come from. And it’s true that the world is running out of gas, oil, and coal—forever. If we scrounge out every speck of coal dust, the most plentiful fuel, and strip-mine every possible U.S. vein to leave a barren wasteland the size of half the country, we still have perhaps 500 years’ worth left—or 200 to 300 years, if we convert coal to gas and oil. At our present growth rate there is less than thirty years’ worth of gas and oil left, according to the National Science Foundation.

But energy crisis? Oh! You mean the energy problem? The dilemma. The challenge. The opportunity. “We have reached an evolutionary watershed,” says Dr. Peter E. Glaser, vice president of Arthur D. Little, Inc., head of a three-part investigation of solar energy that will, he believes, create a whole new energy industry to serve a billion-dollar market ten years from now. “If I can wax Biblical, somewhere in the Old Testament, shortly after God created the world, et cetera, it says he put Man there to subdue nature—and to replenish it. My accent is on the replenishing.”

Until now, Western industrial civilization has tended to look upon the world in pieces, seeing nature as something to be dominated and used. We are just beginning to see the Earth whole. The shift may be as important as the prehistorical shift from man-the-hunter, who took what he wanted or could catch, to man-the-farmer, who replenished his resources and provided against the morrow. Apollo XI helped show us how. Five years ago we saw our whole home for the first time as the astronauts looked earthward from the moon. That wondrous Christmas ball of a world with its swirling patterns of blue and white and ochre hung in the black velvet of utter infinite space, so huge—and so very, very small and finite. What an admirable house it is, the décor grandly conceived and at the same time rich and complex in detail. As a mechanism for control, it has features we are only beginning to appreciate. It is built to last. Powered by the sun—which sends no fuel bill for the energy it supplies to heat the air, run the planet-wide garden, keep the winds blowing and the oceans blooming with oxygen-producing plant life—its operation is basically self-contained, self-repairing. If we cooperate. If we can learn planet-keeping.

We are learning. And one of the most elementary, most essential lessons is that energy is life. Whether you measure it by calories of food consumed by plants, animals, or men, or by calories of fuel consumed to run machines, energy is what makes everything work. The closer you come to enough energy, the better the quality of work, the quality of life—now seriously threatened as the fossil fuel stored in the basement of the world by millions of years of geological change runs out, as our free ride ends.

It’s a problem, all right, but it does have solutions. “We have very many options,” says Dr. Glaser, “and I believe we will need all of them. We will have to do an awful lot of work, and we are not certain which of the options we are pursuing, whether nuclear, geothermal, or solar, will have the best potential—but there are very exciting possibilities.”

SOLAR ENERGY

So far, the best bet seems to be solar energy—a term that covers power sources as diverse as temperature differences in the ocean, green growing algae, and the wind. Solar energy has been there, literally, since the beginning of the world. It’s free in daily amounts 400 percent greater than we are ever likely to need, it rarely goes on strike, it’s inexhaustible—at least for the next couple of billion years—and, best of all, it’s absolutely nonpolluting. Man has used the sun as a power source ever since the first Neanderthal figured out how to focus it through a hole to start a fire. Even industrial use of the sun is not outrageously brand new: there was a solar-powered steam engine at the Paris Exposition in 1878. But gas, oil, and coal were so plentiful, so easy, so cheap that—except for the invention of the electricity-generating solar cell more than twenty years ago—little was ever done to develop the sun’s potential. Now we need it. And it looks like we are going to have it. It will come in two forms: as electricity and as heat. Getting electricity from the sun is the more complicated process. We might build huge solar reflectors to concentrate heat on boilers that generate electricity by steam—like the 1500-watt Russian plant near Tashkent. Or we might use solar batteries, one of which looks like this blue cellophane streaked with silver, spread arrays over our roofs, in walls or on antennas, possibly strung like tents over parking lots. Or focusing mirrors may sprout on solar farms in the sunny Southwest. We may get electricity beamed to us from a butterfly-winged satellite, launched out of the earth’s shadow into the warming sun for four hours of sunshine. Or we may get it from boat floating on the ocean, dusting a great pump.

Every new house built might have its own solar collector, or we may buy electricity already produced as we do now—or we might rent the equipment the way we do telephones, from companies whose business it is to keep solar energy coming in.

This isn’t guesswork. Each of these is a distinct possibility fairly soon. In Newark, Del.—one of the country’s sunniest places—the Institute of Energy Conversion of the University of Delaware, headed by Dr. Karl Boer, has just begun Solar One, a sun-powered house that generates 80 percent of its own electrical needs.

The solar satellite is a project headed by Dr. and Mrs. Aden Meineld, of the Institute of Energy Conversion of the University of Delaware. Solar One, a sun-powered house that generates 80 percent of its own electrical needs. Solar One, a sun-powered house that generates 80 percent of its own electrical needs.

Dr. and Mrs. Aden Meineld, with financiers from Jetik, have recently left the University of Arizona to form Helio, Inc., and begin the process of solar energy-farming. Honeywell and the University of Minnesota also have a solar funding project. One square mile covered with solar devices operating at only 10 percent efficiency (the standard coal-fired plant runs at 35–40 percent efficiency) could produce 180,000 kilowatts.

But solar electrical energy has a problem money. Not technology—the technology is there, ready to go. But at the moment it costs about $20 to generate one watt of electricity. We’re used to paying about $1. Costs for conventional electricity are headed skyrocketing, but solar electricity will not be competitive, at least for the next few years—it will be technologically and economically feasible.

by Sandra Oddi
Solar heating, on the other hand, is here too. It has been here, for anybody interested, quite a while. Japan, Australia, Israel—even India during a brief fling in the '40s when fuel was scarce—use the sun regularly to heat water, usually in rooftop tanks. It is also possible to heat whole houses. Mr. Harry Thomason, who built the first of his four solar-heated houses in Washington, D.C., in 1959, says his system supplies 90 percent of the necessary heat with a large capacity that outlasts five cloudy days.

George Lof, head of a National Science Foundation solar thermal power study at the University of Colorado, has lived in the solar-heated house he built there for fifteen years. Across the country about twenty-five others have put up, says Mr. and Mrs. Stephen Baer, whose house appears on page 72) have constructed their own free-heat systems.

The principle is simple: a sheet of black, heat-absorbent material backed heavily with insulation to keep heat from going out, is propped up—usually on the roof—to catch the sun. Glass covers the collector to keep it from reflecting back into space; air or water, pumped over the space between to warm flows back to a well-insulated holding tank storage. It is called upon as needed—and could demand prove more than supply, there's auxiliary system that kicks in. The house can almost any shape, even old Colonial or young ranch-style. All you need is a good, unshaded exposure.

The Massachusetts Audubon Society is building a solar-heated addition to its Lincoln, Mass., headquarters. The system is expected to supply 65 to 70 percent of the heat load—a reasonable estimate, says the Society, for any solar system, is one of the coldest states. An air-conditioning system based on adsorption, like the old refrigerators, uses the sun in summer.

For three to five years, however, you won't have to be the Audubon Society or a do-it-yourselfer to have reliable solar heat. The gap between technology and commercial availability have been closed. On October 30, 1973, Congressman Mike McCormack of Washington, introduced HR 10952, a bill to establish a $50 million program for research and commercial development of residential solar heating and cooling. By November 1, it had 140 co-sponsors. Hearings were held in November; it could be before the House this month.

In the meantime, a lot of other people are working on solar heating and cooling to the public. TO will have a pilot study on heating and cooling ready some time this year. The National Science Foundation has three studies of possible systems underway. The General Services Administration, which has charge of all federal government building, is putting up a house in Miami, Mich., and an office building in Manhattan, N.Y., both to be partially solar heated cooled. "There are all sorts of possibilities," architect Alan Balfour at Arthur D. Little, where a cooperative effort involving more
If you're young, adventurous and imaginative, like the Steve Baers, you put a solar heating system in your house today, and stay warm in winter without ever paying a fuel bill. The Baers' innovative house, a few miles outside of Albuquerque, New Mexico, is a breakaway from architectural tradition, born of their natural enthusiasm for living differently and trying new ideas. Steve Baer, a talented mathematician, inventor, and designer, experimented with many structural designs until he found the zome—a geometric shape with a parallel zone in it—works better for housing than the dome. "It's a more flexible shape, a zome can be stretched out, joined together with other zomes and makes very satisfying free form building," he says, "unlike the dome, which is always circular." Steve Baer's first experimental zomes were built from old automobile tops, bought for 25 cents each. After he worked out the shape and chopped up a thousand cars in the process, he went on to build unconventional houses like the one he and his wife Holly, left, and their two young children live in now. It's a cluster of eleven zomes, clinging together like a series of different sized bubbles. Despite its space—2,000 square feet—the house derives 85 percent of its heating from the sun. When necessary two fires are lighted in the children's rooms, which face north.
Iow does the solar heating system work?

"Nothing could be simpler. It's very low-technology that almost anyone can understand, use, and it works," says Steve Baer. He took ninety, one-ton metal drums, filled them with water and stacked them up to form drum walls on four facing sides of the house, top right. The drums are painted black on the sunward side, placed behind glass to increase heat absorption. Great insulated doors are lifted up and on winches, right center and above, to expose the drums to sun in winter and heat the walls. When the doors are closed at night, the heat radiates from the water in the drum and warms rooms. In summer, the doors are closed throughout the day and may be opened at night when the temperature drops. This action keeps the water cool, so during the day when the gets warm inside, the cool water soaks up this heat and acts as a natural form of air conditioning. To stop rusting inside, a corrosion preventing mixture is added to the water before drums are filled. "A drum wall is useful in almost any climate of the United States," Steve Baer says. "Even as far north as Canada, south walls are good receptors of solar energy."
wind and light harnessed for independent living

Like many young couples of their generation, the Baers are shaping their whole way of life to live as independently as possible. They work with nature where they can. Eventually they want to generate their own electricity, meanwhile, they are hooked up to the local supply, although they use it only for lighting and operating the refrigerator and laundry machine. Cooking is done by propane gas. All their water comes from a well, pumped out of the ground by a windmill, left. It runs into the house by gravity and is heated by solar collectors—also designed by Steve. Out in the garden, fruit and vegetables provide them with home-grown food, which might have been difficult to cultivate in a windy desert country without the care that they took with siting and landscaping the 4-acre property. "I believe the microclimate of the house and its site are very important when building," Steve Baer goes on. "A protected southern slope can be as warm as a northern slope 500 miles farther south. A good building starts with the arrangement of trees and fences. They have as much to do with the thermal function of the place as the fireplace or the weather stripping of doors." Living in a windy spot, he took advantage of this natural element. Each zome has a ventilator, above, with a fan to conduct the breeze inside.

Steve Baer, above, has a special attitude toward innovation. "I just want to build buildings and design systems that are beautiful and simple and really work. There's nothing earth-shattering about any of my ideas, but they keep people happy. There's so much energy all around us that we overlook. It isn't apparent, but we can gather it so easily. I'm not suggesting that everyone copy our way of life here in New Mexico, but I'm ready to help anyone who wants to know more about zomes or solar collectors."

Write to him at Zomeworks Corp., P.O. Box 712, Albuquerque, N. Mex. 87103.
In addition to the heating derived through the drum walls, the house has another source of solar energy, coming from overhead Skylids, right. These roof devices, another invention by Steve Baer, are placed in rooms not directly influenced by the drums in the kitchen, the entrance foyer, and one of the children's rooms. They are bubble skylights with three aluminum louvers beneath. "Again a perfectly simple idea," Steve Baer remarks. "The Skylid has no switches or wires or motors to go haywire." Two canisters filled with Freon gas on each side of one panel respond to shifting climatic temperature and cause the louvers to move. When the sun pours through the rooms it hits heat-retaining surfaces—the floor, a concrete slab painted with red driveway paint—and the walls, which are faced with adobe. Warmth is slowly released in the cooler part of the day and night. Some houses developed by the Baers' construction firm, Zomeworks, are strong and durable and quick to construct. They have a cement foundation with a wooden "sill." The walls are aluminum panels with a sandwich filling between honeycomb cardboard filled with urethane foam, right center. "It's the same type of material used in trailers and airplanes. This is our adaptation of the idea, which we thought could be improved. Our version gives better insulation in most trailers." The panels were laminated locally and the entire building put up without any professional help, just a team of friends and unskilled workers. It took a year altogether because we were working on several projects at the time, but we know now that eleven zomes could be put together in two weeks," Steve Baer continues. The silvery satin-panels are pop-riveted together with aluminum strips at the joints and the seams protected with a silicone sealant. Construction allows for expansion and contraction of the metal outer "skin" according to changes in temperature, so the building is always making a popping sound. As for family living, Mrs. Baer adds, "I think our zome is good for children and they for it. They participate in making it work, rolling out the floors in winter when it's sunny—they know we can't turn up the thermostat."

Solar Collectors

Inside the Baers' bedroom is the solar collector, right, which heats water for their bathroom. This rectangular wooden box is used to catch the sun's rays and can be adjusted from time to time during the year. Copper tubing filled with a mixture of water and antifreeze is fixed behind the glass top. Then there are locating pipes into a 55-gallon storage tank in the bathroom. The hot fluid heats up and circulates into the bathroom tank, which is another smaller 40 gallon tank inside it, filled with cool, deep water from the well. "The hot fluid heats the cold water gives us more than enough constant hot water. We have a larger collector near the kitchen and this gives us plenty of hot water for the children's bathroom, kitchen, and laundry for "Light and air flow onto the zomes in many ways. Far right: The Skylid with its aluminum louvers is seen from the inside. A stained glass bow, bottom right, designed by Carol Caroling, makes unusual patterns over the living room floor, as do the drums, which are painted white on the inside. The zome clusters arranged in a V-form, see plan opposite page, with living room and kitchen in the center, master bedroom and bathroom at one end, children's rooms off in the opposite direction beyond the kitchen and laundry. An experiment in living certainly. Yet all the facts confirm: "It's a wonderful place to live, and we hope it will inspire others."
Great news, big pots for plants. All here are especially good looking. Some have casters so you can roll them about to catch the sun. Others swing in the breeze. Top, left to right: Ceramic planter, 2 feet in diameter, with artemisia 'Silver King' at Country Floors. Basket of foxgloves is pottery resembling wicker, by Terrafirma for Ro Maia. For a spathiphyllum, black plastic with an outer cage of steel rods, Luten, Clarey Stern. On patio, above, ceramic pot by Norman Bacon, 14 inches across, bedded with begonias. He also designed cloud-like containers, site page, floating from a hardy orange tree, poncirus trifoliate. Pots hold African violets, gloxinia, ivy geraniums a bed of browallia. Opposite page, left to right: Yellow yarrow in a triangular planter designed for a corner, black planter with casters, from Beylerian. Astilbe and pink dianthus, armeria maritima, and ajuga grow in an 18-inch wooden Terrestris. This, too, rolls as does plastic tub with 'Sea Foam' white roses, Beylerian. Shopping information, page
Wide-open to nature

The new super garden bath

Unless you believe in nothing but cold showers, one of the most voluptuous things in the world is bathing in the open air. Not swimming, which, however pleasant, boils down to exercise, but soaking in a deep tub set in a garden. If it sounds incredible, it is not. House & Garden's new super bath was designed by William Machado and associate Norman Diekman to be a bath-refuge—a pavilion quite apart from its parent house, with only a covered passageway as a connecting arm. In this modern annex, which you can add to an old house or plan for in a new one, you can relax in the sunlight, or, if you want to, in the rain. This pleasure is made possible by a huge glass wall that, sliding at a 45-degree angle, disappears into the ground with the push of a button. And there you are outdoors in your tub, with a little water garden at arm's length and, crossing it, a bridge to the swimming pool only a few feet away.

Although it is a romantic supplement to the bathrooms in the main house, the garden bath is not a plaything: It holds all the conventional necessities—a shower, washbasins, toilet, and bidet. These familiars are housed in a little less than half the 20-by-26 feet of space required for the pavilion. To bring overhead light to the dressing-counter, above, a fixed, slanted glass skylight at ceiling height runs wall-to-wall and is screened with a bamboo roller blind. This area of the room stops at the edge of the garden, left, where one steps down from the bare wood floor to the velvet of greensward—real grass, no fakery—cut with a half-size lawn mower. At one end is the soaking tub (by Kohler, as are all the fixtures). Beautifully blue and 20 inches deep, it permits the bather a luxurious degree of immersion. Beyond the lawn is the water garden, crossed by a gently bowed bridge, more graceful than a flat platform, that leads to the swimming pool.
At the end of the gallery-passageway from the main house, left, shallow steps climb to a platform that, in a sense, forms a foyer for the room beyond. Bench in recess is for showerers' paraphernalia. Stall is right around the corner.

The super bath's garden stays green summer or winter

Without the total enclosure it needs to work for twelve months of the year, a garden bath designed only for summer pleasure is an indulgence that, to most people, would not be worth the investment. But because of its ingenious engineering, the super bath is as much a garden in January as June. Its disappearing glass wall, of course, is the answer to leveling the ups and downs of our climate. Closed in winter, it seals in warmth so that grass and flowers thrive with the same healthiness they would have in a greenhouse. A temperature of around 70 degrees is agreeable to most growing things, and certainly not disagreeable to a bather soaking in hot water. A watering can takes care of potted plants—even with a little work, the grass. The water garden, consisting entirely of aquatic plants, fends for itself. And on a winter's day, it should be doubly pleasant to lie in a hot tub and peer out at drifting snow.

One wood, red oak, is used in the super bath for the flooring, the washbasin-drying counter, and water garden bridge, left. The oak planking, by Bruce, is pale because it is completely unfinished—no filler, no stain, no varnish. It will be only the soft sheen that nature gave it. A scrubbed look. The ceiling and all one wall are paneled in "Sanspray," a product of U. S. Plywood created by blowing finely crushed stone to plywood. The effect is of a crystalline surface, shimmering, faintly opalescent. The entire wall behind the dressing counter, above covered in a mirroring Plexiglas with all the reflecting power of a perfect looking glass that extends right to the floor to give the tub-bather an indoor view of outdoors. Nature on the right, its image on the left. Tubular lighting fixtures hung over each washbasin, and during the day, the desired amount of sun—a lot of it or a little—is determined by adjusting the bamboo roller blind at head. Hung on guy wires paralleling the skylight, it works just like an awning.
Architecturally, the super, above, is simple enough to attach to a house of any style, and could be built right up against the house itself. In this example, the gallery forms a space for the gallery, the pavilion for a little sunning place for swimmers. Its roof, pierced with skylights, can also hold planters or flowers, which extend very effectively beyond the pavilion.

In the floor plan, right, the garden bath is divided into three sections: The first, with its wood floor, holds the dressing counter, toilet, and bidet; the second, the "lawn," surrounds the shower; and the third is the water garden. Steps in upper lefthand corner lead from the gallery to the bath's entrance hall.

Tucked away in a semicompartmented corner of the bath, the bidet and toilet, below, right and left, are both of vitreous china in the same moss green as that of the shower stall, and both, like the yellow washbasins, have fittings of brushed chrome. Glass shelves over the bidet hold towels, and the toilet compartment is lighted by the skylight-window that stretches across this end of the room. Around the corner from the bidet is another shelved recess with towels and sponges for the soaking-tub bather. Although the garden bath is primarily a daytime room, it is beautifully lighted at night by a series of wall fixtures inspired by rice-paper lanterns. Fragile looking, they are not. For shopping information, turn to page 103.
Here's new visual excitement in building materials—in the shine of ceramic glaze or hardwood veneer, the roughness of "barnboard." Wallcoverings and fabrics have a new architectural vigor. Panelings are light and easy to install. And more than ever colors are natural and down to earth. 1. Vinyl wallcovering joins the all-stars with "Holmes." 28 inches wide. 2½-inch repeat. $9.45 a roll. By Richard E. Thibaut. 2. Woodgrain patterned vinyl floor tiles come in colors nature never dreamed of—fifty in all. 12 inches square. $3.60 each. From Herbert Bright.* 3. The look of weathered barnboard at a fraction of the cost: new wood distressed and stained to look like the authentic antique. Silver Gray or Mountain Brown. Also in Weathered Red. In random widths from 3 to 14 inches, or 12- and 2-inch widths, board and batten style. 8-foot lengths. Beams and posts—seen in our Super Kitchen, page 64—and wrought-head nails come in several sizes. For price and distributor information write Vermont Barnboard.
Pattern a wall, 4, with cork—1 inch squares or thick and thin stripes that go up in big 2-foot widths. Here from a collection of seven cork wallcoverings, left to right, patterns 6, 1, and 7, all fabric-backed. $1.75 a square foot. By Expanko Cork. 5 “Mexicotta” hardboard paneling looks just like handlaid terra-cotta tile, down to the glowing “glaze” that gets darker toward the edges, a stippled color and texture that looks straight from the kiln. Panels 4 by 8 feet, about $14 each. By Masonite. 6 Hand-painted “Marittimo” ceramic tile with strata of yellow, black, and oranges makes a bold—almost volcanic—statement on walls or floors. Eight inches square. At Country Floors. 7 Murray quarry wall tile in pale earth colors: from the top, Sahara, Sand Flash, Fawn Gray, and Golden Glow. Three darker colors as well. 6 inches square. Priced according to installation. By American Olean. 8 “Ecol-O-Vane” sound-control system for ceilings, walls. Mount the support runners—each light-weight aluminum vane snaps in—or out—of place with finger pressure. Over fifty solid colors, plus woodgrains, linens, and others. $1.05 a square foot. By Levelor. Even more effective with an acoustical blanket beneath—price depending on type and installation.

*AVAILABLE THROUGH INTERIOR DESIGNERS. ALL PRICES ARE APPROXIMATE. ADDRESSES, PAGE 103.

SUSAN WOOD
naturals and shine
for building materials

Outdoors and in, a brilliant pavement of color, 1, for floors—and walls. Coin-shaped "Ducat" glass tiles. The color’s saturated through and through—it’s the glass itself, not just a glaze. Left to right: Rouge, a reddish-brown, Orange, chocolate-colored Brun, and Blanc. And they give you the charm of small, ⅛-inch tiles without the labor cost of tiling one-by-one: they come in 1 foot squares, mounted on nylon net that keeps them in place during the grouting. Eight colors in all. From France. $3.15 a square foot. By Briare, at Creative Surfaces.

Take two near-neutrals and charge them with color—a shocking white, a blue with a steely edge to it—and you have "Live Wire" striped cotton fabric. 48 inches wide. $12 a yard. By & Vice Versa.*

Handmade wall tiles with raised squares within them give the effect of tile on tile. They’re bold abstracts that let the earthen texture and rich shine of ceramic tile stand out on their own. In nine background colors and twenty raised colors or textures. Each of these six tiles is 6 inches square. About $12 a square foot. At Hastings Gallery of Tile.
Shapes take a new shine to walls and floors, with handmade glass tiles from Mexico. In a hexagon, square, or "San Felipe" shape. Black, white, and also in tortoise, with a subtle tonal variation and wavy surface. Up to 8 inches long. About $4 a square foot. From House of Floors. A "Kaleidoscope" vinyl floor tiles come in a rainbow of thirty-seven colors including the delicious pales here. 12 inches square. Priced according to installation. By Amtico. Ceiling tiles are looking up with "Constitution" ceiling tile—revival of a Federal pressed-tin ceiling pattern. 12 inches square. From the Decorator Chandelier Ceiling collection. Priced according to installation. Can be installed either flush with your present ceiling or with the Integrid Suspended Acoustical Ceiling System that lines up the seams so neatly they seem to disappear, so simple you can install it yourself. And it comes with its own lighting fixtures, if you wish. All by Armstrong. 7 "Graphics by the yard"—three knockout wallcoverings. Left to right: "Paul's Stripe Three" in vinyl. 27 inches wide. $15 a 9-foot panel. From First Edition Wallcoverings. "Monopoly" on silver Mylar. 116 inch repeat. 27 inches wide. Can be custom colored. About $27.75 a roll. From Judscott. "LaCasa," on brushed foil. 27 inches wide. 25 inch repeat. $27 a roll. From Perceptive Concepts. 8 Hardwood veneer that goes up by the panel. Here in satiny "Light Hickory." Uniform width "planks" 4 inches wide. 4-by-8-foot panels about $44 each. 4-by-10-foot panels about $46 each. Also "Light Hickory 2," with uniform width "planks" 2 inches wide. Other finishes: walnut, teak, cherry, oak, and pecan—some in uniform widths, some in random, some in both. From the Weldwood collection of ten different panels. By U.S. Plywood. Italian ceramic tile for walls and floors is inspired by Greek designs and named "Ellade." Link the L-shapes end to end—suddenly there's a network of terra-cotta-colored squares. Or build a pattern including two related available patterns. 8 inches square. $5 a square foot. Special order. At Country Floors. 10 Tile a wall in the rugged texture of pumice with "Volcanic Lava Stone." Primeval, in an assortment of browns and grays. Four sizes: 4-, 6-, and 8-inch squares or 4-by-8 inches. To order. From Elon. 11 "Toro" green and white ceramic tile has an almost mother-of-pearl luster. 8 inches square. $2.79 a square foot. At Agency Tile. Architectural drama for indoors: Lightweight "Para-plastic Mirror" comes in almost any color, in variegated patterns, even varying thicknesses. For ceilings and walls, a light and easy way to make ceilings seem higher, rooms larger. Virtually unbreakable. You can have it cut in any size and shape you want. Shown in clear—the blue is the reflected sky. $3 a square foot. By Parallel Manufacturing.
DECORATING THAT COMES NATURALLY and keeps the best of old and new.

Ahead of the crowd, George and Teda Balasses left the city fifteen years ago, moved to a tiny farmhouse in a wooded area of Long Island, and started an antiques shop, Balasses House in Amagansett. Deciding that they “had to breathe a little more,” they recently added a big comfortable living-dining-cooking wing, above and right, and spiced its back-to-basics simplicity with pieces they have collected gradually. To conserve the farmhouse feeling, they used barn timbers as structural girders and beams. Sun pouring through big bay windows facing south and the bubble skylight in the high-ceilinged step-down kitchen adds natural light and warmth the adjoining old house lacked. Radiant heat also underlies the used-brick flooring. Cane, metal, glass, wicker, handloomed fabrics and wood that shows its natural grain lend contemporary airiness. Inside walls of roughsawn, wide pine planks have a thin wash of Firrite sealer to preserve the texture. The roof is red cedar; the siding, white cedar shingles weathered to a natural silver in the sun. Their architect was Alfred A. Scheffer.
Balasses is famous among his friends for his homemade bread, Mrs. Balasses gardens, and together they date, entertain, and travel to Europe and Latin America to scout for their antiques shop. Opposite page: their 27-foot living room, bottom left, the Welsh dresser, chairs, and steel table are from England; the a kilim from Turkey. The dining chairs, above right, are Viennese bentwood, designed for the South American trade and found in Yucatán. Faience plates above the steps to the kitchen, bottom right, are fun. For their kitchen, the Balasses found handpainted tiles, blue and white plus a delectable array of plates," at a factory in Lisbon and installed them themselves. They sheathed the undercounter dishwar, above, with a plywood panel that a friend painted to match the countertop tiles and their black cat.
The best of old and new
COUNTRY HOUSE
WITH COUNTRY
CHARM

Getting back to nature — windows wide-eyed to sunlight, unvarnished woodgrain, homegrown and homemade food, the spell and texture of simple things—prompted the George Balasses' move from the city. Naturalness gives their country house its charm. The door to the old part of their house, left, opens to the original parlor, below, with an iron stove that still works, bare floors with a Moroccan rug, a metal bed cozy with pillows.
stairs bedroom, top, in the new wing opens to a windowed stairwell, loft, and both are filled with light and curios. The bedroom's 19th-century ivory pieces were collected mostly in England. Polychrome antelope heads above the beds are from Mexico; curtains are old lace. Stairwell next to an antler-framed mirror holds art-nouveau glass, gleaming vases, and other finds. 1840 wire chairs, above, from an English garden make a nook for dining under a plum tree, near tomatoes and fennel.
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THOUGHTS FOR
the Hostess

BY MARY MOON HEMINGWAY

The new year is here and with it that sense of a clean slate, which stimulates me to reconsider old habits. This year I seem to be particularly struck with a renewed need for good, old-fashioned, intelligent frugality. It should be a year of saving—I don't mean the ball-of-string syndrome, but good husbandry of time and methods.

Save on cooking fuel. No need for a pot on every burner with perhaps, the oven turned on as well. Try quick stir-fry cooking or cook whole meals in the oven. Consider the hot one-dish meal with uncooked side dishes. Saves on clean-up time, too, as you can cook and serve in the same dish. Even when not cooking Chinese, I stir-fry many vegetables in a wok.

Cooking in the oven is great for easy entertaining as the food keeps nicely. There are many foreign dishes as well as American to prepare without wasting heat. Here, for example, is an international menu. As a first course, Australian green pepper cocktail for six: 3 green peppers, seeded and halved, stuffed with a mixture of 6 tablespoons each cold flaked seafood, diced celery, diced cucumber, lemon juice, mayonnaise; salt to taste plus a pinch of cayenne and a dash of paprika. Serve with lemon wedges.

For the main course try Jordanian Tajin: 1¼ pounds ground beef mixed with 2 small, finely chopped onions; 2 teaspoons minced parsley; 1 teaspoon salt; pepper to taste. Shape into 1-inch balls. Peel and cut into 1-inch cubes, 3 medium potatoes; 2 small eggplants; 2 small zucchinis. Add 1 pound string beans in 1-inch lengths. Salt and pepper vegetables to taste. Put in shallow baking dish. Place meatballs on top. Add 2 cups water, 2 tablespoons butter or oil. Bake at 400° for 45-60 minutes. Serves 6.

With this have Sudanese Robe (yoghurt and cucumber salad): a mixture of 2 chopped cucumbers; a pint of yoghurt; salt to taste; a dash black pepper and garlic powder. Serve on lettuce.

Finish with American hot baked fruits: drained Elberta peach halves; apricot halves; 3 corded, peeled apples sliced ½-inch thick; 2 cups frozen or fresh strawberries; 2 firm bananas sliced lengthwise; ½ cup Triple Sec; ½ cup honey; ½ cup brown sugar; 2 teaspoons ground cinnamon; 1 teaspoon nutmeg; 1 cup unsalted walnut halves. Put all the fruit in a 2-quart casserole except the bananas. Cover with liqueur and honey. Sprinkle with sugar and spices. Bake uncovered at 400° for 20 minutes. Remove. Cover with banana slices and nuts. Bake for 10 minutes and serve hot. Serves 8.

Vegetables, particularly frozen green ones, do admirably in the oven and cook along with the meat at the same temperature. Add almost no water. Just plop vegetables into a buttered casserole, dollop with more butter, cover, and let them cook away. Experiment for time. Frozen peas, for example, take about 30 minutes.

Fireplaces should be used. In small fireplaces, patented pressed sawdust logs are excellent: in big ones, the sizzle of apple pressed sawdust logs are excellent: in big ones, the sizzle of apple

HOUSE & GARD
CREMÉ BRÛLÉE
Step by step to a fabulous make-ahead dessert

20 SENSATIONAL HAMBURGERS
Tricks and recipes from great cooks

DELICIOUS QUICK MEALS IN A WOK
by Joan Lorrying

RUM - THE SUNSHINE DRINK
by Henry McNulty
Outdoor cooking all year round.

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hamburgers, the classic American way with chopped meat, can be as simple or as elegant as you wish. Here’s how some great cooks who respect simplicity, love its variations, and are not above serving them for parties like to prepare their own.

Chips of ice added to the hamburger patties before broiling keep them moist says James Beard, who sometimes varies this by adding a little cream or onion juice to the ground meat. For a really whopping juicy hamburger he suggests searing it quickly in a skillet and finishing off for half a minute in a microwave oven.

"The best hamburgers in all the world are made in an iron skillet with no fat just salt," insists Craig Claiborne, who heats a heavy iron skillet on charcoal until the surface begins to brown. He apes patties out of ground sirloin.

"Handle meat lightly, so it holds together." (This tip from several good cooks! It keeps the meat tender, too much handling makes it tougher.) Sear patties well on one side, flip over quickly with a pancake turner, re-heat and cook until they’re done, about three minutes. When patties are done, season with salt and pepper, top with a pat of butter until the meat begins to brown. He processes 10 to 15 seconds more.

Mimi Sheraton likes her hamburgers au poivre; pounds black pepperorns in a mortar and pestle and press these into the hamburger patties. She sautes them in butter and deglazes with water.

A brushing of soybean added to ground meat half and half makes an even more economical dish; it’s rich in protein and has an undetectable taste. Lame juiciest, just a dash, salt and pepper flavor Diana Kennedy’s hamburgers, author of The Cuisines of Mexico (Harper and Row). She likes to cook them over charcoal or on a lightly greased iron skillet just to sear on each side. Serves them with green chili peppers. Thick slice one onion, wilt in a little hot cooking oil, add peeled, seeded strips of chili peppers, cook about 5 minutes longer.

Mrs. Child might very this by swirling it into the skillet parsley, herb, mustard, shallot, garlic, or snail butter after it has been deglazed with stock.

Edna Lewis Edna Lewis Cookbook (Bobbs-Merrill), now writing a book on her Virginia childhood, mixes her ground meat with a little cold water; likes to spread the patties with a thin layer of bacon grease before frying in a very hot skillet.

"Capers give a good flavor to hamburgers," says Maurice Moore-Betty, who mixes 4 tablespoons of butter with 1 heaping tablespoon capers. Shape into 4 or 5 balls. Freeze. Form chopped meat around caper butter ball and broil as usual.

"Balls of fontina, Bel Paese, Port Salut or any other quick melting cheese peeled inside a hamburger give it a delicious flavor too," says Mr. Moore-Betty.

Vegetable protein (processed soybean) added to ground meat half makes an even more economical dish; it’s rich in protein and has an undetectable taste. Lame juiciest just a dash, salt and pepper flavor Diana Kennedy’s hamburgers, author of The Cuisines of Mexico (Harper and Row). She likes to cook them over charcoal or on a lightly greased iron skillet just to sear on each side. Serves them with green chili peppers. Thick slice one onion, wilt in a little hot cooking oil, add peeled, seeded strips of chili peppers, cook about 5 minutes longer.

Press a red rosemary into thick hamburgers suggests Emmerick Bronson, who grills them over charcoal, and does the same with sweet paprika.

Perla Meyers The Seasonal Kitchen A Return to Fresh Foods (Holt, Rinehart & Winston) likes to mix her hamburgers with sage. Longchamps at Six-fifty street and Third Avenue makes

hamburger. Sauté quickly. Julia Child prefers hamburgers the French way with herbs and flavorings and sometimes a deglazing sauce with mustard and cream.

She makes her hamburgers from finely minced, tender cooked yellow onions, lean beef, a little beef suet or marrow, seasonings, thyme, and an egg to bind. Flour and sauté in butter for 2 or 3 minutes. "They puff up so nicely in the skillet." Remove hamburgers and add a little beef stock, dry white wine, or vermouth and reduce liquid, scraping coagulated pan juices. Swirl in a little butter. Mrs. Child might vary this by swirling it into the skillet parsley, herb, mustard, shallot, garlic, or snail butter after it has been deglazed with stock.

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its Bleu Jacques hamburgers with 8 ounces of freshly ground sirloin grilled over very hot coals; at the last minute top with a mixture of blue cheese and sour cream and a slice of Monterey Jack cheese. Melt slightly under broiler.

A great improviser with ground meat is Janet Wurtzberger. She makes “Edible Hamburger” from Private Collections (Walters Art Gallery). Lightly mix 1 pound lean beef, 1 teaspoon chili powder, ½ cup buttermilk, salt to taste, and form into four patties about an inch thick. Heat 2 tablespoons of butter with 1 tablespoon olive oil in a skillet and cook patties quickly for about 2 minutes with aid of screen spatter guard. Turn and cook 2 minutes. Turn again and cook 2 minutes; turn yet again for another 2 minutes. Remove and serve on dry toast.

Malvina Kinard, from Cooks Corner in Westport, Conn., adds Gruyère and prosciutto to her hamburgers for special occasions. Combine 1 pound lean hamburger with 1 egg, ½ cup fresh bread crumbs, 1 tablespoon cream, 1 teaspoon salt, few grinds pepper and mix lightly. Form into 6-3-inch-wide patties and place in shallow baking dish. Cover each with a slice of prosciutto and top each with a final slice of cheese. Bake at 450° for 10 minutes. Serve with a mushroom sauce.

Carl Sontheimer from Cuisinart makes hamburgers in his Cuisinarts food processor. Add to the machine ¼ pound stewing beef or chuck cut into 1 inch cubes (1 cup tightly packed), 1 cup raw mushrooms, quartered, if large, 1 small tomato, seeded and chopped, ¼ cup parsley, 2 tablespoons all-purpose flour and run machine until mixture becomes coarse hamburger consistency. Add an egg, process to 15 to 20 seconds more. Drop by large spoonfuls into preheated greased skillet. Shape into ovals, cover over moderate heat until medium or well done, turning once. Makes 4 patties.

The Richard Haars like very thin hamburgers; place ground bottom round patties between wax paper and keep in the refrigerator. Whisked out at the last minute, patties are broiled on a hibachi over charcoal very quickly.

The “21” Club’s famous hamburger is made by sautéing 1 cup finely diced celery in 2 tablespoons butter until soft. Combine with 2 pounds ground beef round, 2 eggs (beaten), ½ cup water, 1 teaspoon Worcestershire sauce and mix lightly until blended. Shape into 4 1-inch-thick patties, sauté in 4 tablespoons butter 5 minutes on each side for a medium-cooked hamburger.

Tuck a knob of parsley or chive butter in the center of a hamburger suggests Mrs. Howard Wolfe, Jr. It melts and gives a lovely buttery flavor.

Sauté a giant hamburger the size of an iron skillet and cut it into pie-shaped wedges. Make miniature hamburgers the size of a quarter and serve with mustard sauce for cocktails.

Dot hamburgers with a little black or white truffle, homestyle sauce whipped with a little cream, hot mustard butter, a homemade tomato sauce, avocado mashed with lemon juice and Tabasco, feta cheese mixed with softened butter. ■
We're the only two-wok, one-car family I know. We have a city wok celebrating its twenty-fourth birthday this August, and a country wok going on eleven. I come by my admiration for this unique cooking utensil quite naturally, having been born in China where I was first introduced to the wonders of the wok by a sweet and beautiful lady, who came to take care of me when I was three. Her name was Ta Mei Mei. It was in Shanghai, and we lived in a very large old house in the midst of beautiful grounds—in one corner of which was a smaller building where all the household help lived. It was the custom in those days for the Chinese who worked for foreign families to be paid a food allowance, in addition to their wages, so that they could cook in their own quarters the foods that pleased them. It was my custom in those days to accompany Ta Mei Mei whenever she went back to her quarters to cook herself a meal, which she very often shared with me, and then return for a meal with my parents later. My love for food showed itself very early—watching Ta Mei Mei cook at her wok, and, in later years, watching sidewalk vendors of all sorts of delectable foods in Shanghai cooking at their woks. Then, too, seeing woks used in the kitchens of private homes in Shanghai I was witness to its adaptability to almost any occasion sliced scallion stalks to shrimp, which has just been tossed-fried in the wok in scattering hot peanut or corn oil.

Joan Lorrings adds diagonally sliced method of cooking and the wide range of quantities that this single pan can accommodate from a teaspoonful of parsley to a whole duck. And it will cook whatever the quantity, in whichever method it's necessary to cook it, to absolute perfection. It will toss-fry (usually called stir fry), deep fry, braise, poach, steam, simmer soups, roast chestnuts, bake yams; it will even smoke foods. I'm so accustomed to a wok and find it so irreplaceable that when we go away for any length of time I take the wok with me. I wouldn't stir without it! It has traveled with us to Denmark, the British Isles, Italy, Israel, the Bahamas, California, Washington, and on innumerable camping trips, one of which was a three-week trip in a mobile home. On those camping trips, the fuel we used was the original wok fuel, charcoal or wood. This the most ancient of cooking utensils, still being produced, was designed in its half moon shape for several reasons; one to conserve fuel, difficult and expensive to come by in former times, another to conserve space.

We often have Chinese food at home. But I don't use the wok only for Chinese cooking. Sometimes I use it to brown beef, which I'm going to use in a stew, or to brown a pot roast. It's much easier than in a frying pan or a deep-sided pan, which might capture the steam and not brown the meat nearly so quickly and efficiently as a wok. I've used it for making beef stroganoff. I think it works for a paella better than any other pan unless you have an enormous wood fire and a paella pan. It seems to me that the wok is the best utensil for deep frying too, because the hot oil won't bubble over. I've used it for deep-frying raised dough, piroshki, samosa (which are deep-fried Indian turnovers of a very light unusual dough), raised doughnuts, tacos, and fried chicken. The wok will deep-fry a great quantity of food, given time, in a much smaller amount of oil. So it's time saving and economical as well. In my 16-inch-diameter wok, in a quart and a half of oil, I can deep fry one and a quarter breaded, sectioned fyers at a time.

The wok is good for preparing vegetables that go into stews or as the base for baked, braised, or roasted meats or fowl. A mince of potatoes can't be more simply or quickly prepared than it can in a wok. Onions can be cooked in large quantities.

I can't imagine a more nourishment-conserving way of cooking vegetables than toss-fry-frying them in a wok. They are beautiful color, good in texture and most nourishing provided you don't overcook.

Wok cooking is good for dieters. With a bit of oil, you can cook mountains of vegetables with a very little bit of meat so that the total calorie count is so small you can even afford to splurge and have a cup of rice with your meal.

My favorite wedding present to give a friend (and I can't remember how many such I have put together in these years past) is a wok and all its accompanying utensils: a spatula, ladel, straining sieve, wok cover, trivet (on which pans, plates, or bamboo baskets rest so that fish or other foods can be steamed in the wok), and a steaming basket.

BASIC TECHNIQUES OF WOK COOKING

Seasoning a new wok: Follow manufacturer recommendation for removal of the protective sealing matter. If it's an old-style steel wok it will have a heavy grease scale in which the wok and its steel implements operate over a high flame with 2 quarts water and 2 tablespoons baking soda, bring to a boil, wash each piece thoroughly, rinse well, towel dry, evaporate remaining moisture over medium flame. Apply a light coating of peanut or corn oil on entire piece. Wipe off excess with paper towel. Next season a wok, cook in it frequently, once a day if possible, in order to build a protective coating (much like that of a well-mellowed cast-iron skillet). This will allow for future inclusions of any acid ingredient. Cook simple dishes for the first thirty or so... eggs, meat, fowl, fish, vegetables or noodles and be sure to exclude tomatoes and lemons, or their juice, vinegar, grapes, wine. Some grain or root vegetables are all right to use as flavorings such as scotch, bourbon, gin, and vodka. When wok cooking surface has acquired an adequate protective coating, acid ingredients may be included in dishes without drawing a metal flavor into the dish.

Washing and drying the wok: To wash...
It will toss-fold, deep fry, braise, poach, steam, simmer soups, boil noodles, roast chestnuts, bake yams

Build-in refrigerators and freezers are easy to disguise
Creme Brulee is an elegant, rich dessert, which can be prepared ahead for a party or dinner. It is a light, not sweet baked custard topped by a crisp crunchy caramel crust. It is the contrast between the tender custard and the crunchy caramel crust that makes this one of the great desserts. Creme Brulee (pronounced krem-brúlə'), brulee meaning burnt or caramelized, is deceptive in its simplicity to make and it is a great make-ahead dessert for the hostess whose time is at a premium. This recipe from Mrs. David Wartels (who takes you through each stage in the pictures below) is from the New York Junior League cookbook to be published in the fall by Doubleday.

The contrast between the barely sweet custard and the sweet crunchy crust makes a delicious dessert.

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**Ingredients:**
- 1 quart heavy cream
- 1 vanilla bean
- 4 tablespoons sugar
- 8 egg yolks
- 1/4 cup Don no light brown sugar.

**Method:**
1. Preheat oven to 350°.
2. In a large saucepan scald cream with vanilla bean. Add sugar and scald until sugar is completely dissolved. In a large bowl beat egg yolks until light lemon color, then strain mixture into a 10-inch shallow baking dish or eight-ounce ramekins. Place dish in a pan of hot water and bake in a 350° oven for 45-50 minutes; bake ramekins 35-40 minutes. Custard is cooked when a knife inserted in center comes out clean, or almost completely clean; the custard will continue to cook a bit as it cools.
4. Push light brown sugar through a sieve. Spread on top of custard making a layer about 1/4-inch thick.
5. The sugar topping should be as smooth as possible. Finish off with a finger stroked gently over entire surface to make sure sugar is flat and quite smooth. High spots will burn and become black instead of golden caramel shade.
This revolutionary new appliance, the Waterfine water refiner, turns ordinary tap water into clear, refreshing, Spring-like quality refined water from every tap in your home, automatically. It helps other water-using appliances work better, last longer. Find out more about this unbelievable new appliance ... call your local Miracle Water or Servisoft dealer.

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Try something nutty after dinner.

Patrician Amaretto is the delightful almond liqueur that brings a unique enchantment to your evening. Enjoy it with espresso, coffee or dessert. Or as your dessert. Patrician Amaretto, brought to you from Italy by Mediterranean Importing Co., Inc., New York, without shells.

Rum—the sunshine drink

You may only think of rum as fun to drink, but that is probably because you have never meandered much in the Caribbean where the real thing is made and rum is a way of life. Listen to Mona Defour, an amber-skinned twenty-two-year-old Trinidadian beauty on the subject. "Let us not," she admonishes sternly, "look at rum as a thing that just keeps us happy, because it can be used in many other ways! "It is one of the best ingredients for seasoning meat" she continues, "especially wild game killed in the forests. It preserves meat, ridding it of its wild taste and adding a new flavor. It is also used for soaking fruit in preparation for making wedding and Christmas cakes, and improves the flavor of freshly made orange and grapefruit juice.

"Long ago, mothers did not know about Johnson's Baby Cream or oil wash. They used to soak our heads with rum and the headache would disappear." Trinidad sounds a wonderful place for hangovers.

But that is not all. Mona says that, "whenever a child had pneumonia, the older women mixed nutmeg, soft candle wax, and rum together and rubbing the children with it. I can still remember whenever we had a headache and we had no tablets of Limicycol at home, we used to soak our heads with rum and the headache would disappear." Trinidad sounds a wonderful place for hangovers.

Rum is a spirit distilled either from sugar cane juice, in the old-fashioned way, or from molasses. The United States is the world's largest producer of rum from "blackstrap." In Colonial days, rum was used as ballast when ships returned empty to Europe after a slave trip Westward. Moravian missionaries shared space with these more volatile spirits in the old "rum and Bible ships" to Labrador for preachings in the early days of this century.

Rum is made wherever sugar grows, even Russia makes some. But the Caribbean is its true home where some of it is as smooth as a fine liqueur brandy. In the islands most people drink it almost as soon as it comes out of the still. But it is probably preferable to wait for a blender, a sort of spirituous adviser, to marry the various types and give you a legitimately wedded and properly mature blend. This takes about three years, but rum continues to improve in oak casks for twenty years or more.

Almost wholly confined to sailors in its early days, rum drinking became popular during the cocktail era after the First World War. Rum's flavor depends on the esters (or impurities) in it, and there are almost as many flavors as there are islands in the Caribbean. Rums tend to be darker and heavier the farther south you get. Trinidadian and Martiniquais rums are the most highly flavored, with two or three times as much esters as the US made stuff, and five times as much as the light Cuban version.

Some Jamaican rum is like a black syrup it is so thick, while Barbilla rum from Puerto Rico is almost as clear as gin. British Guyan Demarara has things like plums, raisins, and spice added to give it a fruity taste. Pale gold Cuban rum is made from molasses. Barbados rums are often flavored with bitter almonds, cherry, and even raw steak!

Old New England was once a big rum producing area, and the tax on rum was one of the ingredients that helped to bring on the Boston Tea Party and the Birth of a Nation. In fact, Paul Revere is said to have stopped for a tot of rum before setting off on his famous ride—whether to bolster his courage or to keep warm is a moot point.

In the French islands where some of the best aged rum is made, they still speak Creole. Not to be confused with pidgin, Creole is a mixture of French and English and African dialects. Today it is a true language on its own—the final evolution of mixing dialects—and used by entire populations. Pidgin is the specialized talk once used by Colonists and their employees trying to understand each other.

Being both French and West Indian, the cuisine of the Antilles is as delectable as its drinks, especially seafood like "feroce" (salt cod roasted and shredded in a hot onion sauce laced with pimento, mashed avocado, and manioc flour), or "mamou" (boiled crab with rice) typically eaten on Easter Monday picnics. In Paris, near St. Germain-des-Prés, a bar called La Rhumerie makes all manner of Creole potions. There you can sample one of the best of the dark rums, Rhum St. James, from Martinique, made by slow distilling of pure sugar-cane juice—amber, aged, and delicious.

Rum is what makes the Caribbean world go round, and the national drink, no matter what nation you may visit it is slightly varying from place to place, but basically similar. The Trinidadian version is made by mixing 1 bottle of dark rum with syrup (made with 1½ pounds cane sugar in 1 quart of water, boiled until the sugar dissolves), the juice of 8 limes, and several dashes angostura bitters. Stir well and serve with crushed ice and a cherry. Sprinkle each drink with ginger or nutmeg. The longer it's kept, the better it becomes, so make a lot and keep it cold.

Another version is Punch à-Crème. This needs 6 egg yolks beaten into 2 tons of evaporated milk and 1 tin condensed milk (depending on how rich and sweet you like it), until the mixture is thick and creamy. Into this pour 1 bottle dark rum, add several dashes angostura, sprinkle the drinks with nutmeg and enjoy.

But the real way to drink rum—the way its inventors do—is as follows. "Ever since I can remember," says Mona, my source of all rum knowledge, "I have been drinking rum. Every Trinidadian loves rum, continued on page 100
America needs more energy of all kinds these days. Natural gas is particularly popular because it burns clean. But our country needs more clean gas energy to meet the growing demand. The government and the gas industry are working to get more, but anything you can do to save gas will help. And help save you money, too.

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and knows how to enjoy it. It is an art. Unlike whiskey, rum is not mixed with water or ice, and it is not a drink to be sipped. First you pour out a shot, you can drink it in a glass or glass; open your mouth, pour this slowly down your throat and swallow immediately. You can chase it with water or a soft drink. Then all that is left in your mouth is the cool-burning taste and smell."

"The strongest drink in Mona's lexicon is a perilous potion, "commonly known as T.D.L. [Trinidad Dangerous Liqueur], and only very strong people can drink it. Other favorites are Old Oak, Black Label, White Star, and Vat 19, and a very popular one that comes from Barbados called Mount Gay Eclipse."

Even the local population finds these a bit tough to drink straight, she says. "In the old days the only soft drink that could be found was coconut water, so they formed a mixture with rum and coconut water and thought it made a smooth blend. This mixture is still popular among the older folks."

Mona's own invention is "Liquor" made with sorrel. Make a tisane by boiling basting oil on half a pound of sorrel flowers, from which the seeds have been removed (she means petals). Let this cool, and strain the petals out, sweeten to taste. Mix 1 pint of this infusion with 1 pint of rum and let it stand for five days. Drink it then, neat, as an after-dinner liqueur. Another good liqueur-like concoction is made with coconut, green ones preferably, but "up North" dry, brown ones will do. Bash in one of the eyes, pour out the milk, and fill the nut with young rum. The white type is best for this. Plug the hole and leave it for six months—the longer the better—"in a cool place. Even better it is used in the ground for this aging period. Then drink it neat.

The British are great rum connoisseurs, perhaps because of their naval tradition that decreed that sailors should have touts of rum before going into battles, of which they used to fight a wearisome number. That tradition has recently been abolished, but hot rum and coffee, once the British working man's morning beverage, is a wake-me-up still in use at London's Covent Garden market in the dawn hours. Scotch loch water, by the way, is claimed to be the "only" thing for reducing rum's alcoholic strength.

In St. Michael's Alley, not far from the Bank of England, is one of the oldest "cauphe houses" left from the days of Samuel Pepys, the Old Jamaica Wine House. Founded by a Turk named Pasqua Rosee, the "best rum is obtained there" according to an old 1795 guidebook, and Rosses Jamaica Rum, Lemon Hart, Captain Morgan, Coruba, and Myers Rums are still specialties of the house. A nip or two of these nectars prepares you admirably for an excellent English meal at the George and Vulture an almost equally ancient, noisy, crowded pub across the street.

Some old faithfuls of the rum drinking set should be mentioned because they have been part of America's Heritage since the bad old days of Prohibition. Many rum drinks are sweet because sugar or sweet liqueur is often part of their recipe, but you can experiment with leaving out most or all of the sugar.

Dulguiri, for instance, is 2 ounces Bacardi rum, 1 teaspoon sugar syrup and the juice of 1 lime, shaken and poured over crushed ice. A Marie Galante is 3 parts Martiniqzine rum, 2 Triple Sec, juice of 1 lime. A Port Royal uses one part Jamaican rum, I part Tia Maria, 1 teaspoon lime. This is supposed to cause the bells of a sunken church off Port Royal to peal at each ministration. A Hot Buttered is 3 ounces Jamaican rum, 3 cloves, 1 teaspoon brown sugar, pinch of cinnamon, 1 teaspoon unsalted butter. Dissolve the sugar in a tall glass in a bit of hot water, add the rest of the ingredients. Stand a spoon in the glass and fill with hot water.

Try an M.J.P., for a dry rum drink. This is a jigger of dark rum, juice of half a pink grapefruit, no sugar, lots of ice, stir and drink.

The thing to have, besides a good rum drink inside you, is what the Creoles call a "ti-mousse," or little monster. This is a sort of private spirit born from an egg laid by a black hen on Good Friday, hatched by holding it under warm water amid pat. This godlin eats nothing but meat and is entirely devoted to its owner. If you own one, you will succeed in everything you undertake, which is essential for amateur cooks and bartenders—for instance, to prevent curdling in:
"Wok cooking is great for dieters. With a little bit of oil, you can cook mountains of vegetables with a very little bit of meat."

Veal Piquante

Ingredients: Juice of 1 lemon and 1 tablespoon zest (set zest aside in plastic wrap); 1/2 teaspoon finely crushed rosemary or 1 teaspoon rosemary leaves crumbled; 2-3 tablespoons chopped garlic; 1 teaspoon arrowroot flour in 2 teaspoons water; 1/2 teaspoon salt or to taste; 1 tablespoon wine or sherry (if thickening is desired); 1 cup marsala wine or sweet vermouth; (if thickening is desired, make a paste of 1 teaspoon arrowroot flour in 2 teaspoons water); chopped parsley.

Method: In a bowl (glass, ceramic, or enamel) combine lemon juice with zest, wine, salt, and pepper. Add veal cubes and MSG or sugar (optional); add veal sauce and rosemary. Add veal cubes and mix gently. Pour the mixture into a 10-inch non-stick wok. Stir in cornstarch (enough to coat veal lightly); 2 tablespoons olive oil; 2 tablespoons butter; 1 cup sliced fresh mushrooms (about 4 ounces); 1 teaspoon salt or to taste; 1 cup veal or chicken stock (if using canned or cube bouillon adjust salt); 1/2 cup marsala or sweet vermouth; (if thickening is desired, make a paste of 1 teaspoon arrowroot flour in 2 teaspoons water); chopped parsley.

Serve with an endive salad, lemon dressing. Serves 4-6.

Shrimp and Scallions

Method: Shell, clean, and devein shrimp and place in paper-towel-lined colanders to drain well. Wash and trim scallions and slice in a diagonal in lengths about 1/2 the length of shrimp keeping white stalks and green leaves separate. Have all ingredients at room temperature. Preheat wok over medium heat and add peanut or corn oil. Sprinkle 2 teaspoons cornstarch over shrimp and toss. Increase flame to high. Put shrimp into swirling hot oil, toss-fold-fry for 1 minute. Add white stalks of scallions, continue to toss-fold-fry for 2 minutes more. Add scallion leaves, and MSG or sugar quickly and toss-fold-fry for 2 minutes. Turn off flame, continue tossing motion with spatula another minute. Add sesame oil, toss to disburse evenly. Quickly remove to warm shallow platter. Serve at once with steamed rice and steamed spinach. Serves 4-6.

Stewed Ginger Chicken and Pears

Ingredients: 4 tablespoons fresh grated ginger root (or very finely chopped); 1/2 cup light soy sauce; 2 tablespoons vermouth; 1 egg white; 4 whole chicken breasts, boneless, and skinless; green Bartlett pears, unpeeled, peeled, sliced in quarters.

Method: Soak ginger in soy sauce 1 hour. Drain and press ginger to extract all liquid from it—discard the ginger residue and beat vermouth and egg white. Halve chicken breasts—pour ginger-soaked marinade into a 10-inch non-stick wok, place the chicken in the marinade, turn to coat on all sides, seal with plastic film. Marinate at room temperature for 1 hour. Drain and press ginger to extract all liquid from it—discard the ginger residue and beat vermouth and egg white. Halve chicken breasts—pour ginger-soaked marinade into a 10-inch non-stick wok, place the chicken in the marinade, turn to coat on all sides, seal with plastic film. Marinate at room temperature for 1 hour. Rinse chicken and place on a diagonal in lengths about 4 inches long. Arrange chicken pieces on top. Drizzle marinade over chicken and pears. Place pie plate or bowl on trivet over water, which should be at a rolling boil, top with wok cover and leave to steam for 20 minutes without raising cover. Remove cover, add a pint of boiling water, turn chicken pieces over gently, replace cover, and steam 20 minutes more. Arrange pears and chicken on a warm platter and serve with an endive salad, lemon dressing. Serves 4-6.

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QUICK MEALS IN A WOK

continued from page 101

spoon) to distribute marinade evenly. Cover with plastic film. Marinate for a minimum of 2 hours or up to 4 hours. Drain meat, and pat lightly with paper toweling. Toss meat in enough cornstarch to dust lightly; shake off excess. Preheat wok over medium heat. For 5 minutes. Add oil and simmering hot, add veal and toss-fry until the cubes of face are sealed and slightly browned. Remove cubes to a bowl as they are ready. When all are browned, reduce flame to medium, return the veal to the wok, add the sliced mushrooms, toss-fry lightly for 2 minutes. Combine the sauce, add salt, stock, marasala or vermouth and add them to veal and mushrooms. Allow to come to a simmer.

Continue simmering uncovered 10 to 15 minutes (if veal is from a tender cut it may be served a little pink) or up to 40 minutes if it is from a less tender cut as it should be served stewed.

Use cover for 20 minutes longer cooking time removing cover for last 10 minutes. Add julienne lemon zest last minute of simmering. For a thicker sauce, make the arrowroot paste in the wok last, and into it scoop up some of the liquid from the wok's contents, stirring continuously with tongs for the wok spatula. Now pour blended arrowroot paste and sauce back into simmering veal, stirring with wok spatula until sauce has thickened sufficiently. Remove to warm serving bowl. Garnish with a light sprinkling of chopped parsley.

GREEN AND YELLOW SQUASH

Ingredients: 3 tablespoons pears or corn oil; 2 large cloves garlic, sliced; % pound yellow squash, sliced % inch thick, on deep diagonal; % pound zucchini; 1 teaspoon salt, or to taste; 1 teaspoon regular oregano (Greek oregano) or regular oregano (omit if serving with herb meat dish).

Method: Preheat and oil wok. Add garlic, stir until golden, then add flame to high and add squash and zucchini at once tossing until slices are oil covered; fold-fry for minutes more and add salt. Reduce flame to medium. Add regular oregano and toss-fry for minute. Remove from wok on warmed platter. Serves 4-6.

RED AND GREEN PEPPERS

Ingredients: 4 tablespoons oil; 1 medium onions, quartered and sliced; 1 large clove garlic, squashed and chopped or pressed; 1 teaspoon crushed red chile pepper or to taste (optional); 5
Handpainted stool: $85. At Stephen Barry.

FURNITURE ZEST
Pages 58-59:
"Flap": convertible square cushioned chair, zipped slipcover for easy cleaning. By BBF Bonacina. "Pilora" tent-like flaps suspended above wedge-shaped cushions. By Poltronova. Hot pink chaise: 75" l. x 36" w., x 25" h., easters. $75; 60" w. x 12¾" h. $125. Both pieces at Turner Tubi. Vanity: 25" w. x 22" d. x 52" h., middle drawer pulls out to form a dressing table, stained wood available in several colors. Contact Saporiti Italia USA, Thomas Campaniello Associates. T-shaped table: 25" sq. x 24" h., top section has drawer. At Interior Enterprises. Brass sculpted table: 12" w. x 22" I. x 18½" h. By Gabriella Crespi. U-shaped table: 24" w. x 40" l. x 15" h. $600. From Luten, Claren, Stern. "Blub-Blub" chair: 32" w. x 31" l. x 26" h., pressed foam rubber frame upholstered in stain. $100. At Turner Tubi. Table: 52 diam. glass top, 11¾" h., iron base. At Galerie-Boutique Germain. Chair: 30" w. x 27" d. x 41½" h., of beech and natural leather upholstery. By Germa.

Pages 62-63:

Coffee table: 53" x 33½" x 12½" h., glass top. Stripe available in several colors, 27½" w. x 18" d. x 15½" h. At Crawford. L-shaped units are 4" poplar secured by steel bolts. At Mixed Media Design. "Centopentecchio" chair: 40" w. x 37½" d. x 31½" h., one of many units for sectional seating system by Zanotta. At ICF. Sculptured wood coffee table: 18" w. x 40" l. x 18" h. In a limited, signed edition. By Keller-Williams. At Lord & Taylor. "Canapou" elements: pieces covered in Rincey jersey, At Boutique-Canapou, Paris.

SUPER KITCHEN
Page 64:
Chesapeake sofa: 38" l. x 55½" w. x 31½" h. $595. Stratford wing chair: 31" w. x 26½" d. x 40½" h. $289. Secretary base and top: 38" l. x 12" d. x 36½" h., 3 drawers, adjustable shelves, $260; base only, $180. 18" l. x 12½" h., 3 drawers, 4 shelves. $440. Double rudder drop leaf table: 66" l. x 18" w. x 16½" h. $175. Windsor armchairs: 21½" l. x 16½" d. x 40" h. $105. Windsor side chair: 20" l. x 19" d. x 38½" h. All furniture by Pennsylvania House, "Kalmia" cotton and linen fabric: shown on sofa and chairs, 50" w., 31" repeat. From Clarence House. "Weathered" plywood paneling: used in Irving area. 4" w. x 16½" thick. $15 per panel. By Evans Products. Paint used on ceiling: by True Test. At True Value Hardware Stores. "Miracle Cork" faux brick for fireplace wall. 2½" w. x 3½" h. Master Pack contains 4 boxes, each covers 100 sq. ft., $35 by Durac, Inc. Fireplace equipment: antique andirons: 16½" h., $260; fireplace brush, $75; five fold fire screen, 19½" h., $180. Fireproof fire tools: $210. All from Edwin Jackson, Inc. Beams and posts: available in distressed white pine, spruce, or hemlock. Stock and custom lengths, colors, 3 a running ft. Write to Vermont Barnboard for nearest distributor. Portuguese gesso panels: 6½" x 8½". At 99½". At 91" x 19½". Both by Harmon Carpet.

--Tulip-- quilt: shown on daybed. "Starry Crown" quilt: shown on sofa back, $350 each, made to order; patchwork pillows, $35 each. At Such Outlandish Stitches. Needlepoint pillows: from large collection of ready-made and do-it-yourself pillows. Show Woodworks. Posters: "Stamms," $40; "Seattle Center" by Claeus Oldenburg, $60; "Andr" Emmerich Gallery" by Morris Louis, $45; all with chrome frames. At Poster Originals. Platters: 1 of 3 shown top shelf of bookcase. $675 for set of 3; 1 shown top of secre- tary. $180. antique twisted candlestick; $60 a pair; rose wood tea candle-

Continued on page 157
SHOPPING AROUND

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The Biltmore table has many uses. It can be a spacious desk or a hall console table, a perfect buffet server or a lovely dressing table. One center drawer with brass pulls. Dark fruitwood finish. 48" w. by 24" d. by 29" h. $119.95 exp. coll. Furniture catalogue 50c. Bryan Robeson, Rt. 10, Box 793, Hickory, NC 28601.

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Large leaf design on 10 mesh mono canvas, to work in new longstitch wool embroidery. Kit includes 18" by 17" mounting panel covered in textured fabric, wool yarn. Spring leaf #3461 in greens, yellow greens, yellow; or autumn leaf #3462 (shown) in browns, oranges, reds. $35.95 each plus $1.50 post. Catalogue $2 (refundable with order). Skon Embroideries, GE-1, 55 Lambert La., New Rochelle, NY 10804.

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No use trying, this doughty duckling just won't budge from holding open even the heaviest doors. When not on doorstop duty, he stays put, decorously in place on patio or porch, in living room or hallway. Made of durable black cast iron by Virginia Metalcrafters. 12" by 5" by 7". $16.50 plus $2.50 post. Clymer's, HG-01, Chestnut St., Nashua, NH 03060.

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BUFFET BOUNTY

ASSORTED BREADS

Ecuadorian Palm, Rose, Maple, Gull, Palette, Saguaro, Palm. (Also available are Texas Flag, Roadrunner, and Treble Clef!) Up to 20 letters per line. Printed in black on white or gold embossed labels 1 1/4" x 1/2". Packed in neat plastic box. 500 on white or 250 on gold for $2 ppd. Or on DELUXE SIZE, 1 1/2" long, $3 with design or $2 without, ppd. Specify Initial or Design desired. Via Air-1st, add 30c per order. Bruce Bolind, 21-L Bolind Bidg., Boulder, Colo. 80302. Thank you kindly!

VERSATILITY UNLIMITED

The Biltmore table has many uses. It can be a spacious desk or a hall console table, a perfect buffet server or a lovely dressing table. One center drawer with brass pulls. Dark fruitwood finish. 48" w. by 24" d. by 29" h. $119.95 exp. coll. Furniture catalogue 50c. Bryan Robeson, Rt. 10, Box 793, Hickory, NC 28601.

FOLIAGE OF SWEDEN

Large leaf design on 10 mesh mono canvas, to work in new longstitch wool embroidery. Kit includes 18" by 17" mounting panel covered in textured fabric, wool yarn. Spring leaf #3461 in greens, yellow greens, yellow; or autumn leaf #3462 (shown) in browns, oranges, reds. $35.95 each plus $1.50 post. Catalogue $2 (refundable with order). Skon Embroideries, GE-1, 55 Lambert La., New Rochelle, NY 10804.

STUBBORN DUCK

No use trying, this doughty duckling just won't budge from holding open even the heaviest doors. When not on doorstop duty, he stays put, decorously in place on patio or porch, in living room or hallway. Made of durable black cast iron by Virginia Metalcrafters. 12" by 5" by 7". $16.50 plus $2.50 post. Clymer's, HG-01, Chestnut St., Nashua, NH 03060.
FRESH VIEW
Give windows added charm with the delicate, lacy edging of these tiered curtains. Fringe has a crocheted look, is nearly an inch wide. Curtains are muslin, unbleached (80" w.pair) or bleached (74" w.pair), 20", 25", 30", 36" or 40" long. $5.50 pair; two pairs $10. Add $1.50 post, per order. Free brochure. Country Curtains, HG1, Stockbridge, MA 01262.

FOND MEMORIES
Nostalgia and modern design meet in a trivet with real beans and flower sprigs encased in clear resin. Sealed with them is a typical old-fashioned family photograph. Extra-tough for table use under hot platters and plants; has hook for hanging on wall. 8" dia. $4.98 plus 35c post. Lillian Vernon, Gil, 510 So. Fulton Ave., Mt. Vernon, NY 10550.

LOVE OFFERING
Send heartfelt greetings to your dear one. This lovely heart box is made of glazed white china. Its inner has a rim of gold and inscribed in gold with a message that reads: "Accept this trifle from one, whose love for thee shall never end." Size about 4" by 1½" deep, big enough to hold a token. From West Germany. Order by #8694, 77c; two $1.25. Ppd. wins Dept. 1401, anston, IL 60204.

TRIPLE ARTISTRY
You’ll marvel at the master skills that created this magnificent music box: the finesse of the mechanism, the charm of the design, the three lovely tunes. Made of heavy crystal with large gilt dolphins, gilt legs, and gilt movement. 5½" by 8½" by 2½" high. Box $29; plus $3.50 for insured mail. Hildegarde’s, HG1, 597 Farmington Ave., Hartford, Conn. 06150.

EARLY AMERICAN SCENES come to life in easy-to-do cross-stitch samplers. Each kit includes stamped natural Belgian linen, bright colored floss, and simple instructions. Framed size 10" x 10".

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Little Red Schoolhouse Kit $1.75
 Covered Bridge Kit $1.75
 Old Mill Kit $1.75
 Lighthouse Kit $1.75
 Spirit of '76 Kit $1.75
 Minute Man Kit $1.75
 Wood frame, 10" x 10", mahogany finish $1.50
 Wood frame, 10" x 10", maple finish $1.50
 Allow 3 weeks for delivery.

COUNTRY FRESH
Brighten your table with these reversible quilted placemats and colorful napkins. Placemats are red, white, and blue patchwork construction. $11.95 plus $1 postage. Money refunded if not delighted.

Country Curtains, HG1, Stockbridge, MA 01262.
CREATIVE CANING
KITS OF PRE-WOVEN CANE
Save money—do it yourself—with natural cane for chair seats, screens, stereo speakers, door panels, headboards, lampshades, room dividers. Decorative cane kits include easy instructions and necessary materials. Cane in 3 sizes: 14" x 14" $4.45; 18" x 18" $8.45; 24" x 24" $12.45; ppd. [Cal. residents add 5% tax]. State size, and send check/m.o. to:

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THE BED DESIGNED BY YOUR DOG!
It lets him snuggle into a comfort spot custom-shaped to his own liking! You've seen him bed down in a pile of leaves. It's the same idea! The SECRET to this new idea in pet comfort is the thousands of magic pellets in the durable vinyl bag. They contour softly to his body. And he'll love it! In handsome red, gold or brown vinyl. Wipes clean! Satisfaction is guaranteed.

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King Size: 23" x 36" $12.50

Hand blown from Portugal
Crystal Salad Bowls
Superbly thin-blown bowls show off colorful salads, desserts, fruits or ice cream. Use as finger bowls with a leaf of verbena. Graceful enough for the most distinguished dinner table, versatile enough for morning cereal. 5" dia.; stack neatly. Set of 4. Matching Serving Bowl, $14.95. Also black and white posters. 12" by 18" $2.95, 18" by 24" $3.95, 3" x 3", $4.95. Great for dorm, den or family room. Photo Poster, Dept. X511, 210 E. 23 St., New York, NY 10010.

THORNE PHONE
What's the greatest bathroom luxury since bubble bath? A "Throne" extension phone! Relax and still catch all calls. Long-cord stretches; plug and cable install easily—ready-to-use. Red, gray, black, green, white, beige and ivory. $19.95 plus $1.50 post., w. of Miss. Metropolitan Teletronics Corp., HGl, 35 W. 35th St., NY 10001.
SHOPPING AROUND

WINE WIZARD
Looking for a handsome way to store the vino? Presto! A two-tone rattan and cane rack with natural cane insets and deep brown stained framing. 20" h., 10" w., 5" d. to hold five bottles beautifully. $15 plus $1 post. Write to The Patio, HG1, 550 Powell St., San Francisco, CA 94108.

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Take the worry out of wandering with wicks that water plants while you're away. One end goes into soil, the other into water; while you're gone, the wicks slowly feed the moisture for as long as eight weeks! No rot or mildew. Set of four, $1.99 plus 20c post. Anthony Enterprises, HG1, 585 Market St., San Francisco, CA 94105.

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Fabulous flair at hand with a Goya gem that takes an eagle eye to know it's not the real thing. Brilliant substitute with the glitter and glow of the real diamond. All sizes and shapes in a wide choice of settings, at realistic prices—only $30 a carat. Write for free catalogue. Heraldica Imports, HG1, 21 W. 46 St., New York, NY 10036.

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What a great idea—a caddy hides under the mattress while the bed is made up. At bedtime, slip it out, swing down folding legs and turn the spread over it, neatly and out-of-the-way. Fits low foot boards, Hollywood style beds; use two for double or king size. $6.98 each; two, $12.98. Add 90¢ post. Garrett's, H61, Box 12274, Dallas, TX 75225.

SHOPPING AROUND

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May, 1974
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Space saving table made in Europe of solid beechwood and finished with oiled walnut veneer. Closed, 9" by 30"; one side up, 37" by 30"; fully opened, 75" by 30" and it seats eight. $94.95. Exp. coll. Shipped assembled. Danish catalogue, 25c. Geneda Imports, HG1, Box 204, Teaneck, N.J. 07666.

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SHOPTING AROUND

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Needlepoint design to do in froggy greens on 12" sq. cotton canvas with Paterna Persian. $6.95 with design, wool, needle and instructions. Add 45c post. Wood frame; oak or white finish; $2.25. Others: Purple hippo, pink elephant, beaming bull, breezy bouquet or topsy turtle. Victoria Gifts, 12H Water St., Bryn Mawr, PA 19010.

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“I made it myself,” will bring compliments when you give ties that come in three shapes to fit most neck sizes, up to 1V2" larger for that “just right” feeling. Invisible behind tie, can be transferred from shirt to shirt in seconds. Set of 2.

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Collar-Extender button “squeezes” tight shirt collars. Ends all-day tugging. Expands collar up to 1/2 size larger for that “just right” feeling. Invisible behind tie. Can be transferred from shirt to shirt in seconds. Set of 2.

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FLOWER EXPRESS
All aboard! It’s a delight to stitch the “Flower Train”—a red locomotive, freight car with flowers in yellows, oranges, whites and golds on marigold background. Fits standard 12” by 16” frame. Kit with stamped fabric, wool yarns, needle, instructions, $3.50 plus 50c post. The California Craft Guild, HGl, Box 15300, Santa Ana, CA 92705.

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Best buy for H&G readers: smooth glove leather boot with no-seam vamp, adjustable strap. Resilient ribbed sole, 1” well-balanced heel. 5 to 10 medium in brown, navy, black, red or white. A Kraus original, a boot beautiful that’s smart, comfortable at $16 plus 80c post. Old Pueblo Traders, 600-HIC So. Country Club Rd., Tucson, AZ 85716.

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Non-allergenic foam fleece mask slips over mouth and nose to protect from sick room germs, paint, cleaning fluids or garden sprays. One size fits all and is washable and reusable. Particularly good for paint spraying or paint removal. $1.49 each plus 15c post. Anthony Enterprises, HGl, 585 Market St., San Francisco, CA 94105.

SNOOPY SECURITY
No more slipping or sliding on icy streets using your derrière as a sled. Ice cleats eliminate the worry of snowy, wintry weather. Cleats slip on over boots or shoes, fasten in a jiff, flex with each step for self-cleaning, comfortable walking. One size fits all. $3.49 pair plus 50c post. Holly House, HGl., 9924 Edgecove, Dallas, TX 75238.

NEEDLEPOINT ORNAMENTS
Stitch up the tree with timely favorites. Soldier, lollipop, candy trimmers inspired by childhood memories. Fits standard 12” by 16” frame. Kit with stamped fabric, wool yarns, needle, instructions, $3.50 plus 50c post. The California Craft Guild, HGl, Box 15300, Santa Ana, CA 92705.
Genuine Cast Iron

ORNAMENTAL STORM DOOR $140
Shipped F.O.B. Collect, Check, M.O., Master Charge, Bank Americancard, give card number/cancellation date.
Add a practical touch of elegance and charm to your home with authentic Cast Iron patterns crafted inside a heavy steel frame. Shipped complete (with installation instructions) including: tempered safety glass Full view door cleaning weather stripping hydraulic door closer heavy-duty hinges key lock satin black finish serving homeowners for 38 years

Collins-Hanna Iron Co., Inc.
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SHOPPING AROUND

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Mini-etagere shelf unit to hang on a wall or stand on a table or counter. Wonderful way to gain storage space in bath or bedroom or kitchen. Pierced diamond metal pattern, sturdy construction, brass (SW-212B) or nickel plate finish (SW-212N). 23" h. by 12½" w. $14.95 ppd. St. Nicholas Boutiques, HGI, Santa Claus, IN 47579.

PAGODA OF LIGHT
Handwoven rattan table lamp's a natural for informal rooms and second homes. Fully electrified, it stands 23" high. Natural, $29.95; painted white, yellow, green, pink, black, orange or blue add $3; plus $2 post. Catalogue, 25c. Fran's Basket House, HGI, Rte. 10, Succasunna, NJ 07876.

SWEET SIXTEEN
Give a lovely lady a charm to treasure as a constant reminder of many happy days. Disc crafted in sterling silver or 14k gold with the numeral "16" and a tiny attachment with the word "sweet" reflected on deep blue enamel background. Measures ¾" dia. Silver $33; gold $18. Ppd. Charm & Treasure, HGI, 72 Bowery, New York, NY 10013.

DECORATING PLANS
Three-dimensional room planning kit with Styrene forms that represent over 150 different pieces of furniture scaled ¾" to a foot. Shapes may be covered with fabric, painted. Arrange as many as three rooms on graph paper equivalent to 27" by 44". Walls, windows, doors, too. $6.98 ppd. Plan-It-Kit, Inc., HGI, Box 429, Westport, CT 06880.
NEEDLEPOINT VILLAGE
Delightful country village scene on white mono canvas is ready to work in brown, gold, orange and green. Yarns, 9" sq. design on 12" sq. canvas, needle and instructions plus a needlework bag with each order. $6.95 plus 65c post. Catalogue, 25c. The World of Stitch 'n Knit, HG14, Box 709, Framingham, MA 01701.

GIRL'S BEST CATALOGUE
Empire's new 90-page color catalogue is free and filled with new ideas in diamond fashions in rings, bracelets, pins, earrings. Ten-day inspections and terms are arranged, too! Have your own appraisal and if it is not 25 to 50 percent higher, Empire will refund. Empire Diamond Corp., HG1, 550 5th Ave., NY 10001.

SLEEPS AND EATS GOLF?
Framed and ready to hang, a tasteful joke for the serious golfer. If he doesn't put it up, his "widow" will. 6½" by 5¼" with lettuce green backing and replica golf ball dear to his heart. The gag gift for every golfer! $2.98 plus 40c postage. Order #132. Anthony Enterprises, HG1, 585 Market St., San Francisco, CA 94105.

AUTHENTIC STYLING
Step along with superb ease and comfort in hand-crafted moccasins with built-in wedge heels. Genuine Indian design, of softest, smooth glove leather. Natural, black, and white. Full or half sizes 4 to 10 (medium) and 5 to 10 (narrow). $9 plus 80c postage. Old Pueblo Traders, 600-H1W-S, Country Club Rd., Tucson, AZ 85716.

READ TINY PRINT INSTANTLY!
With these deluxe "Ben Franklin" Half Frame Reading Glasses
These magnifying glasses are a perfect aid in reading fine print in phone books, menus, programs, etc. Crystal clear ø½" top rim gives you unobstructed vision. Impact resistant lenses. Deep Brown or Jet Black. Specify men's or women's Not for astigmatism or eye diseases. With free case. $5.95

Oriental
ANTIQUE PERSIAN PATTERN, imported from Belgium. Woven of fine, natural yarns. Magnificent with any decor. Sizes: 3' x 5', $19.95; 4' x 6', $24.95; 5' x 8', $44.95; 9' x 12', $89.95. Runners, 2' x 8', $24.95; 2' x 11', $29.95. Specify Gold, Green, Red or Blue background.

Navajo
AMERICAN INDIAN PATTERN, fine quality, woven of deerskin, natural yarns. Versatile on floors or walls. Specify earthtone accents on an ivory background or mostly brick reds and golds with colorful accents. Sizes: 3' x 5', $34.95; 4' x 6', $39.95; 6' x 9', $69.95; 9' x 12', $129.95.

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MUSICAL IVORY

Listen! This beautiful pendant is not only lovely to look at, it's a tiny but talented music box as well. It's made of fine silver with heavy gold plating, and has an ivory embossed design. The tender tune: "Somewhere, My Love." 13/4" by 1/4" by 1/2". $68 plus $1 insurance. Hildegarde's, HG1, 597 Farmington Ave., Hartford, CT 06105.

KEEPING TABS

Insurance companies, police, moving companies all recommend keeping household inventory. "My Possessions" has printed forms in several sections—jewelry, silver, paintings, hobby equipment, credit cards, more. Black moire trimmed in red. $11.50 ppd. Robert Shillinger Co., HG1, 409 Fidelity Bldg., Cleveland, OH 44114.

FINDERS KEEPERS

There's no mistaking his ball for the others on the green or in the rough—his, thanks to you, is gold and personalized with his full name (limit 18 letters and spaces)! Golf balls in solid state design are guaranteed for accurate performance. Set of six, $5.98; set of 12, $9.98. Ppd. Walter Drake, HG47 Drake Bldg., Colorado Springs, CO 80940.

NIMBLE THIMBLE

Traditional Dutch windmills are hand-painted on a Delft china thimble 1/4" h. The blue of the design is that typical rich, glowing color that is world famous. Skilled needle women and beginners alike appreciate a fine thimble. $1.50 ea.; two, $2.75. Add 25c post. Ferry House, HG5, 597 Farmington Ave., Hartford, CT 06105.
COUNTRY STYLE
Bring casual elegance to your dining room with a butcher-block table. In sizes for small families or lots of company. 48" by 30" $148.50; 60" by 30" $163.15; 60" by 36" $179.25; 72" by 36" $197.10. Exp. coll. Also available in custom sizes. Catalogue, 50c. Butcher Block & More, HG1, 1600 So. Clinton, Chicago, IL 60616.

PASTORALE
Hand-painted cachepot from Portugal, with matching 9½" saucer, fired to a gem-like glaze, has shepherding motif with flowers, foliage, decorative rings. Soft blue-green tones. Use as plant holder or ornament, 6½" dia. by 5½" h. $9.98 plus 75c post. Lily's Garden, Dept. G14, 510 So. Fulton Ave., Mt. Vernon, NY 10550.

WARP AND WEAVE
Do-it-yourself pillow complete with weaving loom! To create 16" sq. pillow, kit includes pattern, instruction, yarns (gray, brown, white, black, with orange silk accents), comb-beater, wood shuttle and reference photo. Loom can produce 20" by 60" weaving. $24.95 ppd. The Attic Weaving, HG1, 5703 Northumberland St., Pittsburgh, PA 15217.

TENNIS, SOMEONE?
A handsome bag that can keep things really organized; compartments for racquet, balls, all the tennis gear. 16½" h. by 15¼" w. Dark blue heavy-duty canvas with white lettering. Handles are generous length for fitting shoulder to leave hands free. $14.95 plus $1 post. The Gift Tree, HG1, Box 55, Kensington, MD 20795.

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Always In Season

Burrowing Owl
Hand-made wall covering. Stunning "Hand-crafted imported." Does not have to be destroyed by the bird. $3.00 each; hand-embroidered for free. The Tattered Boot, 117 W. Main, Florida 22356.

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Why the photo chest? Because it makes choosing easy to store, easy to use. Because it looks so elegant on shelf or table. Because it's simple to make any month after order of $25, refundable on order of $25, refundable on order of $25.

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**RUKIN.** Underwear in nylon tricot with velveteen front pouch for uplifting support. White, black, nude or navy. S-M-L-XL. 2 for $10.95. No C.O.D.'s. Add 50c postage.

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**SHOPPING AROUND**

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**Sea-slanted whale weathervane is sturdy made of cast aluminum, painted black. Adjustable base fits any roof angle. 24" whale indicates direction of wind.**

**30" overall height. $19.95 plus $1.25 postage. Catalogue of decorative nautical items, ship and cannon models, marine prints 25c, Presto's, 101-K Main St. Wharf, Greenport, NY 11944.**

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**Now he sees it, now he doesn't**—that intelligent cat you know will love playing "mouse in the hole." The mouse, by the way, is an elusive ball that will entertain him for hours. In blue sturdy plastic, 6" dia., 3 1/4" h. $3.45 ppd. Catalogue, 25c, Suburbia, Inc., Dept. 340, 366 Wacouta, St. Paul, MN 55101.

**SEAT OF SPLENDOR**

**Crush white textured vinyl seat padded fully with foam, initiated in light blue and garlanded in delicate pastels. An elegant addition for any bath or powder room, it complements so many decorative schemes. Specify one initial. $29.95 plus $1.25 postage.**

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**Now he sees it, now he doesn't**—that intelligent cat you know will love playing "mouse in the hole." The mouse, by the way, is an elusive ball that will entertain him for hours. In blue sturdy plastic, 6" dia., 3 1/4" h. $3.45 ppd. Catalogue, 25c, Suburbia, Inc., Dept. 340, 366 Wacouta, St. Paul, MN 55101.

**STAIR-GLIDE**

**RENTAL-PURCHASE Program Available**

**Your STAIR-GLIDE installs easily and in less than 2 hours. No marring walls or stairway. No special wiring required. Stops from factors within 2 days. STAIR-GLIDE ... the nation's largest selling stairway elevator!**

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**BIKINI.** Underwear set-in front pouch Black on white only 2 sizes: S/M or L/XL. $39.95.

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**BIKINI.** Underwear set-in front pouch Black on white only 2 sizes: S/M or L/XL. $39.95.

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**POUCH FRONT**

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**CHAIR-Loc CO.** Dept. HG-174 Lakehurst, N. J. 08732

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Mather's, HG1, 31 E. Main St., Westerly, MD 21157.

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SWING HIGH

Solid oak swing is just like grandmother’s on the side porch in summer. It recalls lemonade, shady maples and hot afternoons. Seat depth 16", 48" wide. Chains are not shown but are included. Ready to finish in paint or stain, $17.95; add $2 for natural oak finish. Exp. coll. Marion Travis, HG1, Box 292, Statesville, NC 28677.

FROM GUESS-WHO

If you’ve wondered what became of those really old-fashioned cards that used to appear in your mail on February 14th, here they are. Nostalgic designs and Valentines sentiments printed in full color offer a definite change from the usual run of greeting cards. 24 assorted cards. $1.25 ppd. Tower Press, Inc., Box 428HG, Seabrook, NH 03874.

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Hand-carved in wood 16x13" $50.00
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EVANSTON, ILL. 60204

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2 pairs to window as shown
Unbleached—70" wide per pair
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Handpainted plate from the Crown Delft factory in Holland is a perfect way to commemorate the birth of a child or a birthday. Give full name, time of birth, weight, date of birth and place of birth. Blue and white, 6¾" dia. Three weeks delivery. $16.75 ppd. Postmaster Co., HG174, Lafayette, Pa 19444.

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Whimsical ducks, rabbits, cats and elephants (worked in cross-stitch later) are all on an easy-to-crochet afghan to greet a new arrival. "Toyfair"s" background is soft yellow or white (specify). Kit to create 36" by 44" afghan includes acrylic yarns and directions. Washable! $7.95 plus 75c post. The Stitchery, HG1, Wellesley Hills, MA 02181.

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Antique Kerman design in lush colors: red, gold, olive, ivory, dark blue. Rayon-cotton blend in six sizes: 3' by 5', $19.95; 4' by 6', $24.95; 6' by 9', $44.95; 9' by 12', $99.95. Runners: 2' by 8' I, $24.95; 2' by 11' I, $29.95. Ppd. Catalogue, $1. Peerless Imported Rugs, GEJ4, 3028 N. Lincoln Ave., Chicago, IL 60657.

HIGH-RISE MODERN
You can go practically anywhere in style and cushiony comfort in this new-look pump. Gilt buckles gleam from triple-tier strapping which makes for snug fit as well as smoothness. Soft urethane kid in black or dark brown. 10 to 14, in narrow or medium. $18.25 ppd. Free 64-page catalogue. Shoecraft, Inc., HG1, 603 Fifth Ave., New York, NY 10017.

ATTENTION!
"I know you believe you understand what you heard is not what I meant." Great gift guaranteed to improve communications. Black letters on golden plate in pine-finish plaque. 4" by 5", $19.85 plus 25c post. Anthony Enterprises, HG1, 585 Market St., San Francisco, CA 94105.

ON-THE-GO CATALOGUE
Off on a cruise or golfing on a tropic isle this 1974 Vacation and Travel catalogue offers 32 full color pages of summerweight wear for women and selected styles for guys, too. Shop by mail before you hit the resort or the deck and enjoy carefree days in the sun. Free! Johnny Appleseed's, HG1, Box 702, Beverly, MA 01915.

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What appears to be shell-like sculpture, springs open to an all-in-one phone that fits in the palm of the hand. Winner of the famous European Design Award! Jet dial; cushioned base. Bisque white. 6¾ long by 2¾ high. $99.95 plus $1.50 post. Add $2 west of Miss. Metropolitan Tele-

ions, HG1, 35 W. 35th St., New York, NY 10001.
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MONEY MAGAZINE

SMART SWITCH

Black switch from New England is handsome on any wall here at home. A variety includes: duplex outlet, $1.49; single outlet, $1.49; two-outlet, $1.95 each; two-switch outlet, $2.75; three, $3.25. Add $25 post each order. Hardware Emporium, Dept. G, 353 Main St., Danbury, CT 06810.

BIG NAME

Toile those travel bags with confidence—big, bright lucite tags distinguish yours from the rest of the airport heap in a flash. On your choice of amber, clear or black, 24k lettering spells out name and address. 3½" by 1¼" tag on cowhide strap, each $3.50 ppd. Order a bagful from Bruce Bolind Inc., HG1, Boulder, CO 80302.

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$49.95 ppd. A.C. Gifts, HG1, 2642 Central Park Ave., Yonkers, NY 10710.

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Who can remain angry long with a pet that has this excuse? Poster that speaks for itself shows Fido or Kitty (send clear photo) with sign: "One of the books best features is its self-mailer forms . . . you just fill in the blanks."

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MONEY MAGAZINE
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**WRITE FOR MILES**
No need to replace pens so often if you have this "four-mile pen." Long research resulted in a new contour grip and a cartridge which, with normal use, can be expected to last more than a year. Satin chrome embossed metal, with jeweled retracting push-button. Black. $5 plus 50c post. Postamatic Co., Inc., HG174, Lafayette Hill, PA 19444.

**WHEEL OF FORTUNE**
Treasured photographs bring treasured memories—and flip-style rack makes it all easy. Plastic envelopes hold 160 photos on 8" by 3½" by 5" device to keep within reach at desk or chairside. $7.95 plus $1 post; 16 refills, $1 plus 25c post. Arthur Mechanic Inc., Dept. G-5, 345 Park Ave., New York, NY 10022.

**SUPER SWEATER**
No reason to be mild-mannered—put your monogram up front! Shetland sweater from Hong Kong is in cornflower, peony, ice blue, shamrock, natural, navy, red, yellow or orange ice, sizes 36-40, $16; with white monogram (underline last initial), $21. Add $1.25 post. Send for free catalogue. The Talbots, Dept. VJO, Hingham, MA 02043.

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Start now on needlepointing the dated and numbered third Christmas tree ornament. Hand-painted white church, green ground. Tape-bound canvas. Kit includes Persian-type yarn, needle, felt backing. 3½" dia. $9.52. Downs exclusive. $5 ppd. Also 1972 peace dove, $7.50; 1973 angel, $5. All Ppd. Downs, Dept. 1401, Evanston, IL 60204.

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For fitted bottom sheet, add $3.00 to double or twin price; $3.50 to queen; $3.00 to king price. Add sizes as required. Send check or m.o. 50% deposit on C.O.D.'s.

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Heavy duty rack holds a half cord of wood neatly stacked and ready for the fireplace. Matte black wrought iron rack folds flat for storage. 4" by 4" by 14" deep. Keep the wood in the cellar, in a corner near the hearth. Holds up to 1500 lbs. $34.98 plus $2.75 post. Herriet Carter, HG-1293C, Plymouth Meeting, PA 19462.

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Get into the joys of growing your own thing. Burpee puts out a terrific gardening catalogue, all the information you need to plan and successfully grow new hybrid flowers or organically tame a vegetable patch. Lots of illustrations! Free from W. Atlee Burpee Co., Dept. 5314, Burpee Building, Philadelphia, PA 19132.

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Classic design to do in crewel embroidery for a 14" by 14" box pillow cover. Kit includes design on bittersweet rayon and cotton fabric, crewel yarns in luscious yellow, pristite white and green, piping, zipper, needle and directions. $6.50 plus 50c post. The Stitchery, HG1, Wellesley Hills, MA 02181.

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Utterly darling for a curio shelf or miniature setting—three tiny candle holders in English pewter. Each is shaped a special way into a leaf, heart and chamber stick. They'll hold the standard birth­day cake candles. Perfectly good for quickie light potential, too. 1" scale. Three for $3.98 plus 50c post. Wages, HG1, Hartsdale, NY 10530.

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Handy little comb strokes out mats, pills and balls from napped fabrics in seconds. Use it on sweaters, shawls, any knit. Great on double knit slacks and blazers. May be used on fabrics of man-made fibers as well as wools. $1.29 plus 20c post. Or­der D-Fuzz-it from Anthony Enter­prises, HG1, 585 Market St., San Francisco, CA 94105.

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Solid pine box comes with mini-shelves artistically ar­ranged. You create your own design with your own treasures—keepsakes or a cherished collection! Add glass and molding strips (all in­cluded) and everything's safe and dust-free forever! Hang or stand it—leave it natural or paint or stain it to blend with your décor. For enchanting kitchen art, fill the cubicles with vari-colored dried beans, peas, corn, pasta, spices, dried flowers. Beautifully made in U.S., in two sizes, each 2½" deep.

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Shipping Around

CASTLE KEEP
Bavarian castle in the Alps is a beauty to needlepoint. 18" by 22" in blues with sunlit foliage. Kit includes #10 double-mesh full color canvas, English tapestry wool; uses half-cross stitch. $33.50 plus $1.50 post. Catalogue 50c. Roselle Needlecraft Co., HG1, 1008 Fifih St., Box 1717, Santa Monica, CA 90406.

MAKE-UP ATTENDANT
Quick-lighting mirror is always ready for use in dim light. Has phosphor bronze electric circuitry; unit in gold-finished Florentine housing; push-button activates high-intensity micro light. Gold-trimmed case, batteries included. 4" by 2 1/4" by 1/2"; $6 plus 30c post. Global Creations, HG1, 1029 Carrin Dr., Tallahassee, FL 32301.

JEWELS AT YOUR FEET
Just the shoes for your mood! Multi-colored stones set in glove-soft leather with bright metallic braid add sparkle to comfort. 1-inch heels. "Gem" in gold, silver, black, and white. 4-12 in narrow, medium, and wide. $14.95 plus 75c postage; sizes over 11, $1 extra. Softwear Shoes, HG1, 1711 Main, Houston, TX 77002.

OPTIC OPERA AIDS
For those who hate to miss a move—folding opera glasses. Tiny enough to slip into any handbag or pocket. Sports fans, theater buffs, and ballet bugs all love them. Makes balcony seats seem like first-row center! Chrome plated, 2 1/2 by 25 m/m. $3.98 plus 25c post. Anthony Enterprises, HG1, 585 Market St., San Francisco, CA 94105.

WHAT'S COOKING?
Easy to hunt up the recipe with your favorite cookbooks at hand. Stack them neatly in this practical rack. In honey tone pine or antique pine finish. Hang or stack them. Makes balcony seats seem like first-row center! Concrete plated, 2 1/2 by 25 m/m. $3.98 plus 25c post. Anthony Enterprises, HG1, 585 Market St., San Francisco, CA 94105.

DATE DATA
Two-in-one appointment calendar keeps track not only of daily duties but gives information on 13 different house plants. "Growing Seasons" tells all about how to maintain them. Also available: "Just Desserts Calendar" that shows sweet goodies. Each, $1.50 ppd. Free catalogue. Current Inc., Y74, Current Bldg., Colorado Springs, CO 80941.

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SHIPPING AROUND

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MAKE-UP ATTENDANT
Quick-lighting mirror is always ready for use in dim light. Has phosphor bronze electric circuitry; unit in gold-finished Florentine housing; push-button activates high-intensity micro light. Gold-trimmed case, batteries included. 4" by 2 1/4" by 1/2"; $6 plus 30c post. Global Creations, HG1, 1029 Carrin Dr., Tallahassee, FL 32301.

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Just the shoes for your mood! Multi-colored stones set in glove-soft leather with bright metallic braid add sparkle to comfort. 1-inch heels. "Gem" in gold, silver, black, and white. 4-12 in narrow, medium, and wide. $14.95 plus 75c postage; sizes over 11, $1 extra. Softwear Shoes, HG1, 1711 Main, Houston, TX 77002.

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WHAT'S COOKING?
Easy to hunt up the recipe with your favorite cookbooks at hand. Stack them neatly in this practical rack. In honey tone pine or antique pine finish. Hang or stand. 17" h., 13" w., 8 1/4" d. Twin drawers hold 3" by 5" index cards, included. Finished. $17.95, kit $14.50. Ppd. Add 75c w. of Miss. Yield House, G41, 747 Washington St., No. Conway, NH 03860.

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The Stitchery
Dept. HG201A, 204 Worcester Turnpike
Wellesley Hills, Mass. 02181

SHOPPING AROUND

NEW HOUSING STARTS

Home Planners, Inc., Dept. HG-E-41, 16310 Grand River, Detroit, MI 48227.

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CARPET TAPE
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KEYS IN STITCHES
Lollipop flowers, daisies or golf, tennis, bowling, sailing or skiing designs on 2" by 3½" key tags. Stitch initials on the back. Complete kit of canvas, Pernera Persian wool, design chart, needle, chain, easy-to-follow instructions. $2 each, six, $10.95. Add 45c postage. Classic Corner, 12H Water St., Bryn Mawr, PA 19010.

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$16.95 plus $1 postage. Other career plaques available at the same price; Doctor, Dentist, Accountant, Stockbroker, Nurse, Teacher, Homemaker, Pharmacist. Send 25c For Next 3 Issues of Our Art Needlecraft Catalog.

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Cold-colored metal desk plaque proclaims in black lettering: It's hard to be humble when you're as great as I am. No false modesty here, or is it ego-assuaging? I'll give friends a joshing good laugh! 4" by 4" on stained wood stand. $1.98 plus 25c post, Anthony Enterprises, HG1, 585 Market St., San Francisco, CA 94105.

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Free Spring Catalog—mail coupon packed with every order.

Energy is where you find it, and the clever Icelanders are taking full advantage of two energy sources with which their island is blessed. Guests at Icelandic Airlines Loftleiðir Hotel in Reykjavik are pleasantly surprised to find fresh flowers on tables in the dining room. But it is even more surprising to be told that the flowers come from greenhouses heated by natural hot water. This comes from geysers that have been tapped, or from wells, some drilled as much as a mile deep. The greenhouse, right, grows hibiscus, with escaping steam from a hot-water well rising just outside. Other ranges produce roses, primulas, and just about everything you’d find in a greenhouse anywhere.

Artificial light, a prime necessity during sunless winter days up there near the Arctic Circle, comes from electricity generated by the same hot water and electricity furnish heat and light for Icelandic houses and office buildings. House plants are as important in Icelandic decoration as they are in the U.S., and garden centers are as common there as here. Some of these greenhouse-garden shop combinations are quite elaborate, where visitors find no incongruity in walking under a bougainvillea vine blossoming in tropical luxuriance. The hot core of the earth comes close to the surface in Iceland, which makes tapping it relatively easy. But the same heat lies underground everywhere, so it would seem to be only a question of developing means of reaching down for it.

"With very little care, an amaryllis bulb will continue to produce flowers for years"

The science of medicine began with the use of plants as remedies. Present day doctoring is done mostly with man-made chemicals, but it is surprising to consider how many of these syntheses are actually reconstructions of compounds found naturally in plants. This does not mean that modern doctors are mistaken in using syntheses, but it does mean that the original sources should not be ignored, either. Maurice Messegue, a Frenchman who has become widely known as nature healer, and who uses plant remedies almost entirely, has set down his ideas in the form of a book, Of Man and Plants (Macmillan, $8.95). Messegue has so many interesting things to say about finding, growing, and using plants of all kinds that the book makes absorbing reading for anyone interested in botany, gardening, or medicine. Some of it may sound like mumbo jumbo, but there are enough fresh ideas—or old ideas freshly presented—to give us food for thought.

More and more people are giving amaryllis bulbs as Christmas gifts. Even the most amateurish of gardeners can hardly fail to notice a huge, brilliantly colored flower cluster from one of the high-quality bulbs commercial growers are selling nowadays. If you don’t want to be bothered with the bulb after the flower fades you can always give it to a neighbor—or heaven forbid!—to get it out. But most of us try to keep our amaryllis growing, since with very little care a bulb will continue to produce flowers for years on end.

The growing plant needs light—although it does not have to be direct sunlight—plenty of water, and an occasional feeding, and may stand in the same pot for years. Most of the bulbs say to let amaryllis dry out and rest after the summer growing season. But some very successful growers take a hint from the fact that the plant (called Hippeastrum by botanists) comes from the moist tropics where it never gets a chance to rest. So they keep their plants watered and fed year round.
**HOPPING INFORMATION**

**Page 68:**

\[ \text{continued from page 103} \]

**Food:**

- **Superb food waste disposer:** 99¢; w. x 15” h. 2 qt. capacity. $1.50. By Kitchen Aid, a division of Hobart Manufacturing. "Addison" bar sink: 12 x 12” d., single bowl, $114.90; Lakefield" 2-bowl sink: 33 x 22” d., $180. Both by Kohler. Perma-

Shield gliding door and window opening size: 12” w. x 6” 10” h.; opening size window: 14” w. x 4” h. By Andersen Corp. Acrylic domed skylights: $360; 4” x 45” h. By Nat-

**Bathroom Setting:**

- Pewter-look al. $10 each. From the Plough tavern on the Wilton RWP Am, at the top of the town of Elfin. "Illusion" water film: Orrefors crystal, $7.50 each. At the Am, where you'll find "American Colonial" stainless flatware: 18/10, $6.10 each. By Oneida, a division of Motorola. 12 pc. dinette:

- 12 pc. Silverplate:

**Dining room:**

- Linen:

- Linen:

- Table:

**Antique stand:**

- Show:

**Unbreakable:**

- Glass: $600. At Bazaar de La Cuisine. 12” w. x 10” h. x 8” thick. From the Plaza. For: 8 cup capacity. 9-5/8” h., 3% x 5” b., $28.50. At Hammacher Schlemmer. Straw animals: duck, swan: 12. By Oneida. Each:

**1-handled trophy cup:**

- Antique, $200 each, shown 3rd shelf of bookcase. $60 each. At John Rosell.

**Page 69:**

- China storage:

**Top shelf:**

- Flowered hexagonal plates: $35 for set of 6. At Hammacher Schlemmer. Half pint pitcher: $7; pint pitcher, $9, 12” salad bowl, $26. At Stagl, at Neiman Marcus. Middle:

**Green Caulky:**

- Coffee mugs and pot: coffeeept, $17.75. By Stagl. At Neiman Marcus. Bottom shelf:

**Green Caulky:**

- Chine: dinner plates, $8.25; salad, $4.50; desert, $.39; creamer, $.69; sugar, $.35. By Stagl. At Neiman Marcus.

**Bowl storage:**

- Top shelf: Beige earthware bowl: $5. At Bazaar De La Cuisine. Pyrex measuring cups: 1 cup, 75¢; pint, 93¢; quart, $1.29. By Corning. Bottom:

**White milk:**

- Souffle dishes:

- Small:

- Large:

**Artists**

- Play Area:


**Superior Indoor:**

- Back row: planter, 8” w., 9” deep. $2.50 each. From Harry Gitlin. Cork accessories:

**Storefronts:**

- 24” x 33” x 33” thick. From the Plaza. For: 8 cup capacity. 9-5/8” h., 3% x 5” b., $28.50. At Hammacher Schlemmer. Straw animals: duck, swan: 12. By Oneida. Each:

**Driveway:**

- 15’ x 8’ thick. From the Plaza. For: 8 cup capacity. 9-5/8” h., 3% x 5” b., $28.50. At Hammacher Schlemmer. Straw animals: duck, swan: 12. By Oneida. Each:

**Sinks:**

- 9’ x 18” x 10” Deep. $20. At All Design Research.

**Cabinets:**

- 36” X 36” x 22” h., $1995. At Neiman Marcus.

**Sinks:**

- 9’ x 18” x 10” Deep. $20. At All Design Research.

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- 9’ x 18” x 10” Deep. $20. At All Design Research.

**Cabinets:**

- 36” X 36” x 22” h., $1995. At Neiman Marcus.
The spring catalogues are here again, and we’re all spending long evenings looking, dreaming, and wishing we had the space, time, and money to grow all the goodies set before us. Of course the watchword has to be: Choose wisely. If you can’t try everything you’d like this year, there’ll always be another gardening season. The seed industry has greatly simplified the task of choosing what to grow by presenting its All-America Selections. These are flowers...
and vegetables that have been rigorously tested in various parts of the country. Reports from the test growers are analyzed at the All-America headquarters in Gardenville, Pa., and ratings are awarded on merit. So any plant designated in a seed catalogue as an “All-American Selection” is sure to be worth growing. And, of course, mailorder seed buying remains the simplest, most direct way of getting just what you want. Whichever of the mailorder catalogues you order from, the seeds you get will be fresh, healthy, and true to name. Diversification is getting to be a keynote with the seed firms, too. Practically all of them are offering a select line of tools and equipment, from trowels to bird feeders. Leading the list of worthwhile new products are the cordless electrical appliances. These work by being plugged in to the household electricity overnight, after which they are ready to be taken out for their tour of duty—grass trimming, hedge pruning, or what have you. Lightweight, easy to handle and easy to ship, these new tools are a boon to the gardener’s toolshed.

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Tucked almost out of sight but handy beside the kitchen, the laundry room is a pleasant private place to deal with the mechanics of household management. Above an Elkay sink convenient for laundry or flowers, an insulated Andersen window overlooks a garden. A Lady Seymour ironing center stands ready for the weekly session done all at once, of course, to save electricity. Steam iron from Hamilton Beach. Sink fixtures by Delta. Red smock by Kangaroo.

Fluorescent lighting by Sterling, under cabinets, is another energy economy. Laundry supplies are stored under the sink, over the Speed Queen washer and gas drier. Household utilities—a 40-gallon Ruud water heater from Rheem, a Waterfine water refiner, a gas incinerator by Calcinator—invisible but fully accessible behind louvered Slimfold doors from Ternes, are safeguarded by the Nu-Tone fire alarm system that also provides security for the house. Sheets by Warnsutta, Croscill cotton comforter save energy twice: The sheets are no-iron, the comforter is filled with Kodel fiberfill so they need much less time in the drier, and practically no pressing. The drier is vented outside, necessary in a tight little room like this, and also easier on the summertime air conditioning system. The floor, easy to mop, is Armstrong tile, as in the kitchen.
BUILDING AND REMODELING

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DECORATING

3. A CLOCK THAT TELLS CONSIDERABLY MORE THAN TIME - Ridgeway clock. Representative selection of floor clocks in a variety of wood finishes and decorator colors. Brochure includes timely tips on decorating your home.

4. MIRROR MAGIC from Carolina Mirror Corp. 32-page, full-color catalogue features decorative framed mirrors in a variety of shapes, styles, and finishes. From simple Early American to imported handcarved frames. $1

5. ARE YOU CHOOSY? Lane gives you the choice of a lifetime, from over 1001 pieces of furniture varying in size, shape, and design. Eight pamphlets, with color photos and diagrams, present a wide range of collections. 25c

6. SHARON ROAD is a richly rewarding furniture collection from Burlington House that is contemplation in mood and exceedingly livable for the world of today. This booklet contains illustrations and descriptions of these all-wood well-designed pieces.

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8. FOR “OVER 50 YEARS” Hekman has been making first-quality design furniture. Eighty-eight page booklet is generously illustrated with pictures of skillfully executed, elegant craftsmanship. This booklet includes selections from Country Kent, Trade Winds, and Normandy collections plus many others. Detailed measurements are given for each piece described in the brochure. $1.

9. RECLINE IN COMFORT in a Barris looner... styled to fit your tastes and upholstered with the newest fabrics in the design industry. All furniture engineered to offer custom relaxation for every type of body contour. Brochure illustrates loungers and all their different positions.

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11. FOR THOSE WHO APPRECIATE THE FINEST in design and craftsmanship look at Baker Collections. Reproductions of hundreds of unique and authentic furniture designs from Europe, England, and the Far East are illustrated in this 256-page book. $5

EATING AND ENTERTAINING

12. BE FAMOUS FOR YOUR SALADS. You can, with a colorfully illustrated 64-page handbook from Regina Wine Vinegar, “The Sensuous Salad.” Included are 47 new and exciting salad recipes ranging from Asparagus Victoria to Zucchini Caper Salad. $1

POTPOURRI

13. A FASCINATING STORY. “Background To Denby,” is the title of an exclusive booklet, which traces Denby pottery yesterday to Denby pottery today, emphasizing the importance of high level design and skill. Colorful pictures of oven-to-tableware featured.

14. CARE OF CARPETING, RUGS, UPHOLSTERY. Have you ever wondered what to do about spills, spots, and stains on your carpeting and upholstered furniture? The answers to many questions are in two booklets available from Bissell Inc. 20c.

15. CREWEL FABRICS. Color catalogue illustrating brilliantly colored hand-embroidered crewel fabrics on hand-loomed natural cotton, available by the yard for upholstery, draperies, bedspreads. Also, crewel tote bags, pillow covers, chair seat, tablecloths, and namndah rugs. Gurian’s. 50c.

16. “THE EXCITING ART OF DECOUPAGE” is a 16-page, full-color booklet with hints and ideas on this fascinating craft. Gives step-by-step instructions on painting, sealing, milking, antiquing, lining, and finishing; and on suitable and unsuitable decorative art. 25c

17. HOME SWEET MOTOR HOME. The GMC Motor Home catalogue introduces you to a new mode of recreational living. Fully-color interiors, floor plans, specifications... everything you’ll need to plan your own home on wheels.

18. IOWA IS MANY THINGS. Discover them for yourself in a 40-page illustrated booklet by the Iowa Development Commission. Details the numerous sightseeing attractions, cultural and outdoor recreational activities.

19. ANSWERS TO WOOD CARE QUESTIONS. The advice of experts compiled to give you all the facts on wood care. This informative booklet provides the hows and whys for the care of all fine wood from antiques to paneling. Scott’s Liquid Gold. 10c.

20. FROM AMERICAN RANCH TO FRENCH CHATEAU, beautiful Scholz homes are presented in a collection of 32 full-color folders in a sturdy file envelope. Each 9-by-12-inch folder includes photos of exteriors and interior views plus diagrams of floor plans. You’ll want to study them all. $3.

21. FLOWERS AND VEGETABLES in a 116-page, four-color catalogue listing 3,000 varieties plus a germination table and culture guides. New selections feature Petunia F1 Filigree, a super grandiflora; and Marigold Red Wheels, a daisy-type flower. George W. Park Seed Co.

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January, 1974

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HOUSE & GARDEN, JANUARY, 1974

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THE FUTURE OF PLANET-KEEPING  continued from page 71

Other biological methods under study: the use of bacteria to break water down into oxygen and burnable hydrogen; fast farming to produce plants for breaking down into fuels chemically or by burning (pyrolysis).

Wind. The heat of the sun shifts as the earth moves under it—which keeps the world's atmosphere in a state of indecision most of the time. Winds blow everywhere, but stronger and more predictably in some places than in others. Dr. William Heronemus of the University of Massachusetts is engrossed with a project to float electricity-generating windmills in the strong offshore breezes around all our coasts. He estimates that in fifteen years, windmills off the coast of New England, for example, could generate 150 by 100 kilowatt-hours—a mind-staggering amount. Meantime the old-fashioned farm windmill, used to pump water, is coming back into style. Unlike the woodburning stove, which people are buying in astonishing numbers as a strictly temporary way to fill the energy gap (the one Maine foundry that still makes them had 500 on hand last year, this year is 800 stoves behind its orders), the windmill is practical, even a pretty piece of equipment for a country house. The Real Gas and Electric Company in Gernville, Cal., will soon be ready to distribute Australian-built windmills in rural areas.

Ocean temperature. The surface of the ocean between the Tropics of Cancer and Capricorn never drops below 82 degrees. Two thousand feet down, the temperature rarely rises above 35 degrees. By exploiting the difference in temperature, scientists estimate they could turn out one heat of energy for every pound of warm water flowing through the heat pump.

Each of these methods is renewable—that is, the power source will never run out. Some are already in practice. Nashville, Tenn., and New York City are among the municipalities investigating trash as a fuel. Louisville, Ky., has already begun to convert garbage and sewage into energy. And there's an interesting bonus: the garbage problem is going away. Once every aspect of the cycle is hooked into the life support system—as it is in nature—there are no ugly leftovers. Louisville is finding, on a very small scale, that planet-keeping pays.

HYDROELECTRIC ENERGY

We have used the force of falling water to turn electric generators for decades—but the spillways of giant dams or waterfalls like Niagara are not the only places where masses of moving water can be conveniently trapped. Under serious study for hydroelectric generation are the Bays of Fundy and the Passamaquoddy, where tidal bores—those huge waves of water that mark the turning of the tides in some places—can be set to work.

NUCLEAR ENERGY

This is probably the big one for the years immediately after fossil fuels become impossibly scarce and expensive, and before renewable sources like solar energy are fully developed. There are twenty-nine nuclear fission power plants in operation in the U.S. now, fifty-seven more under construction and seventy-six are being planned (as of January 31, 1973). These 162 generators will add 40 percent to our existing output. They have all the problems of fossil fuel generators plus a few of their own: their fuel is scarce and irreplaceable, they pose serious air, land, and water pollution problems, they are extremely expensive to build and operate, and they are huge—a cooling pond of about 1,500 acres is necessary even for a small plant. Breeder reactors, which create more radioactive material than they use, could solve the fuel problem—and compound radioactive waste pollution problems beyond conceiving. Scientists have yet to find a way to "dispose" of wastes, which take thousands of years to degenerate.

If the technology of nuclear fusion can be solved, many problems will disappear—but the development time looks longer and more costly than for many renewable-energy systems.

ENERGY MANAGEMENT

Energy management, the single most important attack on the immediate energy dilemma, is the use made of energy we already have, and it's one place where the private individual can make a real difference. If we all follow A. M. Watkins's rules on page 24 we could save several percentage points in annual consumption without affecting our standard of living. And there are steps new-home builders can take that not only save energy but improve comfort and quality, too. Here are a few:

"What's outside?" should be the first question the builder and buyer of a house ask. Where is the prevailing wind? Where will the sun rise? What shade is there? Is there a prevailing wind? Where will the sun rise? What shade is there? By eliminating windows on the north, heating costs are cut. By locating breezeway-catchment windows east and west, by planting trees to use the climate-control system the planet already has, by letting natural breezes blow, summers inside will be cooler.

"What materials?" is the next question. The technology of temperature comfort has existed for centuries. Old adobe houses in the Southwest are cool in the daytime, warm at night. In West Pakistan, thick walls keep out heat while rooftop scoops pull prevailing winds into cellos to cool before they blow through the building, and slanting roofs channel rainwater into barrels in the courtyards. Americans can use insulation, and we are beginning to try tricks like half-burying houses in the cooling earth.

"What will it cost, in energy, to run?" That's a question that mortgaging banks ask as a matter of course—and that homeowners rarely really consider. One well-known Boston contractor says only one client has ever asked, in his thirty-five years in business. It can make a huge difference. "Say in five years solar heating and cooling added $4,000 to the cost of a $20,000 house," says Dr. Wilbur. "You say, $4,000—that's ridiculous. But once it's installed there are no running costs. You amortize it over twenty years and it knocks $30 to $40 off your monthly energy bill." At the moment, solar heating, cooling, and electrical generation are more likely to cost over $100,000. But the same point applies.

"When it's finished, what kind of efficiency can I demand from my machines?" Anybody buying an appliance ought to ask this—and it will probably stump the salesman, though odds are the next few months. There are two ways to assess appliance efficiency: one is through Energy Efficiency Ratio, or EER, a measure likely to be a legal requirement soon. Some companies, like Montgomery Ward, have anticipated events by listing it voluntarily. The other method is to demand a life-cycle cost rather than a simple purchase price. New York City, for example, now does all its buying on the basis of life-cycle costs—how much an air conditioner, say, will cost to acquire and operate over the estimated seven years of its life.

All sorts of things are going to have to be built better, to last longer, because every manufacturer processing consumes more energy. And consumers, we can and should demand the latterly: we will, after all, be the beneficiaries with better-quality goods. Recycling will help. The Reynolds Aluminum Co. estimates that recycling aluminum cans takes only 5 percent of the energy necessary to extract aluminum from ore.

The next ten years will be the hardest of the energy dilemma. To ease them, we must all get used to new habits—simple, virtuous things like turning off lights, using public transportation, recycling everything we can lay our hands on, curbing our consumer reflexes; and more complicated like learning how to plan our houses, our towns, and our cities. If we can use energy consumption now, we'll probably have enough gas, oil, and coal to get us through the coming years of change. From then on, the climate weather looks sunny and moderately clear.

GEOTHERMAL ENERGY

Inside its seemingly innocent envelope of rock and soil and water, the earth is a seething molten cauldron. Trapping and using that heat and that energy seems very practical although there are some serious environmental problems to consider (what happens, for instance, if you upset the temperature balance in the vicinity of a geological fault: earthquakes?). HR 11112, now in the House of Representatives, would provide $80 million for the study and implementation of geothermal energy.
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