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COVER
This month’s cover is a view of the Dromoland Castle, County Clare, Ireland which is being converted into a resort. Architects for the million dollar project are Milosevich and Trautwein of Columbus, Ohio.

The owner is Bernard L. McDonough, Parkersburg, West Virginia.

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FROM IRISH CASTLE TO CASTLE RESORT

Take an old castle by the sea; add a volume of tradition; an abundance of enthusiasm, planning and labor; enhance with a variety of modern facilities; and enjoy the luxury of the "New Castle" Resort in County Clare, Ireland.

In the fall of 1962, Bernard L. McDonough, an industrialist from Parkersburg, West Virginia, contacted the architectural firm of Milosevich and Trautwein in Columbus, Ohio, seeking counsel in a proposed project.

The structure—the family home of the O'Brien Clan (who were instrumental in freeing the Irish from the Normands) built in 1700 in the south-west of Ireland, eight miles from Shannon Airport.

The plan—to convert the "home" into a comfortable resort. A trip to the site, a great deal of study and consultation proved that the plan was feasible.

McDonough purchased 450 acres of a 1200 acre estate from Lord Inchiquin (his British title), who is today head of the O'Brien clan. Work was begun immediately.

Three trips to the site enabled the
General view of the Dromoland Castle, County Clare, Ireland, which is being converted into a resort. The $1,000,000.00 project will be completed by June 1, 1963.
The "Old Castle", now used as garages and stables, will be entirely gutted. New entrances will be found and areas will be re-planned for better use. The center of the building features a two-story living area known as the great hall. This area remains in the new design with the remainder of the building housing 25 bedrooms.

The courtyard, now finished in asphalt, will be landscaped for the enjoyment of the guests. An inter-connecting alley-way between the old and new castles will also be landscaped and covered walkways will be provided.

architects to gather sufficient photos, plans and notes to prepare drawings and specifications from their Columbus office.

The original structure, the "Old Castle" built in 1700 will, by necessity, be completely gutted and re-planned for better use. The "New Castle", constructed in 1800, will not require such drastic re-planning. In both castles, however, the reconstruction program will be influenced to a degree, by the walls which in some places are 2-3 feet thick.

No building code, as we know it in the United States, exists in Ireland. The only governing agency involved is the Bord Failte Eireann, which reviews design and plans for those projects falling within its jurisdiction. The function of this department is to allot cash grants to those individuals or firms providing guest concessions or holiday accommodations within the Irish Free Government. These grants are based on an amount of 275 pounds (approximately $762.00) per room for such projects. In addition, the Bord Failte Eireann sponsors a five-year interest free loan program which is available to these same firms or individuals.

Among the existing facilities on the site are a complete water supply for the estate (stored at the top of a hill), a very adequate septic tank system, a high pressure fire system surrounding the entire castle, and a hot water central heating system, which will require little or no alteration.

The castle requires very little work
structurally. A new roof (slate, supported on wood trussed rafters) will be installed; windows replaced and covered walkways provided.

Materials are not as readily available in Ireland as they are in the United States. Steel and brick are at a premium, and must be shipped in from other countries. The most accessible materials are concrete, lumber and stone. Concrete block is used extensively. However, the light-weight blocks used in American construction are foreign to the Irish. Their coreless 8" x 16" blocks require two men to lift them into place.

Both the Old and New castles require complete re-plumbing and re-wiring. Bathroom fixtures will be shipped from the United States. An interesting fact is that most electrical circuits and lighting fixtures are 220 volt. Consequently, the re-wiring of the castles will conform to this pattern.

The grounds surrounding the castle lend themselves beautifully to the planned recreational facilities. An 18 hole golf course, designed by Brooks E. Wigginton, landscape architect of Wheeling, West Virginia, will run completely around the lake. Plans also include areas for tennis courts, horseback riding, hiking, stream and lake fishing.

The resort, when completed will require a staff of 40-50 persons, all of whom will be housed adjacent to the castle. Irish tradition dictates that they be provided complete and separate facilities.

FEBRUARY, 1963
In the architect's plan, the study (pictured) will become the formal cocktail lounge, adjacent to the dining room. A tavern on the ground level, with cobblestone floors, will retain the rustic flavor of the castle. A connecting terrace overlooks the lake and opens onto the courtyard.

The main lounge of the castle will remain as such in the new plan. Although the castle will be completely re-furnished, the traditional atmosphere will prevail throughout.
The focal point of the main entrance to the "New Castle" is a gallery honoring prominent members of the O'Brien Clan, and will serve as an impressive lobby for the resort.

Part of the lounge area in the architects plan encompasses the existing hallway (pictured) which leads to the stairway to the second floor.
New Tiki Bowling Lanes Is GAS Air Conditioned To Keep Bowlers Comfortable at Minimum Cost

Central Gas Air Conditioning that assures complete indoor comfort 365 days a year is among the many fine features of the recently-opened Tiki Bowling Lanes in Lancaster.

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THE OHIO FUEL GAS COMPANY
The Cleveland Chapter of the American Institute of Architects recently presented its annual award for an outstanding instance of preservation or restoration of historic buildings to the Oberlin Historical Society.

The building honored was Oberlin’s oldest structure—the 19th Century Little Red Schoolhouse on East Vine Street. Its restoration was the result of a one-man crusade by the late Clifford A. Barden.

Mr. Barden rescued the structure last year after the city had marked it for demolition. Enlisting the support of the Village Improvement Society and the aid of a number of Oberlin residents, who gave generously of both time and money, he persevered in the project of saving this historic building. Today it stands looking much as it did originally, from the rustic shakes on the roof to the potbellied stove inside.

The little schoolhouse was built in 1836, after the directors of the school district approved the raising of $200 for a building “20 x 24 ft., one story high, 9 ft. posts, underpinned with stone, well lighted entry.”

The new schoolhouse was first used in the fall of 1837, and was the only one in operation until 1851. From the outset, the schoolhouse was inadequate to house the 236 children of school age. The overflow were housed in college buildings, private homes, and village shops.

Finally, in 1851 a new two-story...
A pot-bellied stove, rocking chair, and numerous other articles were donated by Oberlin residents to retain the old schoolhouse classroom atmosphere.

The brick schoolhouse was erected, and the Little Red Schoolhouse was converted into a private dwelling.

It was late last spring, when the City of Oberlin bought and planned to raze the building, that Mr. Barden stepped in with his proposal.

Restoration and refurbishing became a community project. Former teachers and students, as well as other local residents and merchants, donated books, furnishings, and other articles to capture the early classroom atmosphere.

Professor emeritus Clarence Ward and Professor Paul Arnold of the department of fine arts, Oberlin College, were consulted on restoration plans.

In commenting on the restoration project, Professor Ward said, "... it is a typical example of the 'little red schoolhouse' of literature and memory. Moreover, it is exactly the type of building which one would expect of the severe 'Puritanism' of early Oberlin. It has the simplicity on which the entire community and college prided itself. It is a product of the Ohio frontier ... the oldest building in Oberlin in anything like its original form ... the only existing representative of the first decade of the 'Colony's' existence. In a city like Oberlin, where education has always been a commanding factor, the preservation of a schoolhouse, no matter how humble, seems to me to be a most admirable project ..."
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Formica Corporation has entered the wall paneling business with a new product and an eight-market test campaign. The Cincinnati manufacturer of laminated plastics thus is making a major move toward product diversification and extended use of its laminate on vertical surfaces.

The new product has been designated Formica V.I.P. paneling, or Vertical Interior Paneling. A complete prefabricated wall surfacing system, the V.I.P. product package includes laminate-faced panels, each 16 inches wide, plus finished molding strips and a unique spline system which acts as a securing and hidden-nailing device. For decorative flexibility, spline systems offered can effect either a V-groove or half-inch accent strip motif for walls. Ease of installation, minimum upkeep and long life in high-traffic areas are prime qualities of the product, according to Formica.

Market areas chosen for the test are New York, Philadelphia, Miami, Tampa, Atlanta, Cincinnati, Newark and Boston. In preparation for full-scale product introduction later in 1963, the entire spectrum of marketing activities will be tested in these locales, including wholesale distribution, stocking, packaging, delivery, promotion and job-site installation.

According to Charles L. Walters, Formica's New Products Marketing Manager, 75 per cent of total V.I.P. sales are expected to be in commercial construction. The remainder, he predicts, will be in light construction and custom residential projects. Thus prime test installations will be offices, stores, hotels and motels, airports, professional buildings and similar structures.

"Testing of V.I.P. marks a major step forward in our progress," Walters said. "Laminated plastic has been used on wall surfaces for years, but high cost and the difficulties of on-site application, particularly irregularities of the sub-wall itself, have limited this usage. New Formica V.I.P. paneling, which is affixed to standard furring strips, eliminates these difficulties, furthermore offers the user a complete product package, not merely the laminated plastic."
One of the world's leading architects is betting that suburban Americans in the next few decades will be flocking back to the cities — thanks to more efficient use of air... just plain air.

The upsurge in urban living will be made possible by more extensive use of "air rights" — the privilege of putting up an apartment house over a site already in use — says Dr. Walter Gropius, Chairman Emeritus of Harvard University's Department of Architecture.

Builders will be able to take advantage of air rights over all kinds of sites — like a 32-story apartment in New York built over an approach to the George Washington Bridge — by using high-strength steels, Dr. Gropius said. Developed in recent years, the new steels give the same strength with 10 per cent less weight. Building codes in various cities have already been revised to permit their use, with a saving in cost.

Looking into the future, the 79-year-old Gropius said: “The trend will be back to living in high-rise city apartments and away from sprawling suburbs where you need a car to get any place. More and more people will want to live close to centers of culture and commerce.”

Gropius predicted that “the much stronger steels and pre-stressed reinforced concrete units” will be the favored materials of the future. They will permit construction of high-rise combination apartments and commercial buildings in downtown areas, he said.

“Steel enables a building to be put up quickly,” he said, “and is the only practical material to use for buildings higher than 25 stories, especially in areas subject to earthquakes.”

Gropius also foresaw use of “reversed air rights” in which vast underground garages will be dug out from the earth beneath crowded downtown sections of modern cities.

“This would eliminate the very ugly seas of parking in American cities,” he said.

Gropius, who lives in a converted old dwelling near Harvard Square, believes 20th Century man really prefers to live close to his fellow man.

“People feel best when there is life whirling around them,” he said. “When you press them together, like in the old towns of southern Europe — where you get more lively relations from man to man — people are happier.”
STAINLESS STEEL AND WATER SPARKLE IN NEW TREE FOUNTAIN

An unusual new fountain, shaped like an exotic tree of stainless steel, now adorns the Garden of the Provinces in Ottawa, Canada.

Designed by architect Norman Slater for the Canadian capital’s National Capital Commission, the 25-foot-high fountain consists of a central trunk from which 100 curved branches project, each bearing a curved, rectangular leaf. Jets of water spray from most of these branches and splash downward from leaf to leaf below.

Before designing the fountain, architect Slater studied the proposed location and its surroundings. Finding that the buildings in the background had what he considered a “heavy” appearance, he determined to create a “light” design for the fountain.

Stainless steel turned out to be an ideal material for this purpose; its permanence and hard, dense surface permit it to retain a bright finish indefinitely and to withstand the attacks of time, water and weather; while its high strength permits the design of slender and delicate members that can withstand great stress. Since the fountain makes an attractive jungle gym for children when the water is shut off, each branch was designed to withstand at least 500 pounds loading despite their narrow diameter of one and two-thirds inches and their sectional thickness of less than two-tenths of an inch.

Type 304 stainless steel, a chromium-nickel alloy, was used throughout the fountain in both tubular and sheet form. All surfaces were manually polished and buffed to a high finish.

During construction of the fountain, a number of special operating procedures had to be worked out by architect Slater, by Felix Kraus, the structural engineer, and by Canadair Limited, the fabricator. For example, in order to create the tapering form of the trunk specified by the architect, it was necessary to cut a tapered wedge from one side of the stainless tube, then close the space on a brake press and weld it shut.

For the leaves, a form was made to the exact curvature required, plasticene balls were stuck to it to achieve the desired hammered pattern, and dies made from this model. The stainless steel sheet was then stretch formed into a smooth dish of the proper curvature and the pattern was stamped on by a 1,000-ton press.
KAISER ALUMINUM DOME RECEIVES U.S. PAT.

A United States patent (3,058,550) has been granted covering the Kaiser Aluminum dome and its structural components.

The dome, of stressed-skin geodesic type, was developed by Kaiser Aluminum & Chemical Corporation. Dome buildings ranging from 85 to 200 feet in diameter have been constructed for varied uses such as theatre, auditorium, exhibition or convention hall, sports arena, bank, airport building and factory.

The most recently completed dome is a 160-foot diameter building (see accompanying photo), the Stephan Student Activities Center on the University of Notre Dame campus at Notre Dame.

Among outstanding structures utilizing the Kaiser Aluminum dome have been the 200-foot diameter building erected as the central feature of the American exhibit at the 1959 Moscow Fair and a 144-foot diameter outdoor "sunshade" for the Miami, Florida, Seaquarium.

The domes utilize unique tetrahedral structural units formed from sheet aluminum, or other material, which comprise both the protective covering and the framework of the structure. Although the structural units are particularly adapted to use in geodesic domes, they may also be utilized to advantage in applications of more conventional design because of their exceptional strength, lightness and attractive appearance.
DANSIZEN JOINS CANTON FIRM

Lawrence, Dykes, Goodenberger & Associates, Canton Architects, announced recently that Kenneth H. Dansizen, Jr. will be an associate in the architectural firm.

Mr. Dansizen, age 32, resides at 5637 Circle Hill Drive, North Canton with his wife, Gloria and daughter Linda. He is a member of the Good Shepherd Lutheran Church, the North Canton Jaycees and the Eastern Ohio Chapter of the American Institute of Architects.

His architectural experience was gained at the firm of Lawrence and Dykes until 1958 then he worked for other architects in the Canton area and San Francisco, California. He returned to Lawrence, Dykes, Goodenberger and Associates in 1961.

With Mr. Dansizen’s promotion the firm now includes six licensed architects. The others in the architectural firm, which was founded in 1947, are R. E. Lawrence, E. W. Dykes, R. A. Goodenberger, K. J. Breting and J. W. Martin.

OSU PROFESSOR RECEIVES FELLOWSHIP

Prof. Perry E. Borcher of the School of Architecture and Landscape Architecture at Ohio State University has been awarded a National Science Foundation Science Faculty Fellowship for the 1963-64 academic year.

Under the fellowship, Professor Borcher will carry on study and research in architectural photogrammetry at the Royal Institute of Technology, Stockholm, Sweden. His work will involve primarily the photogrammetric recording and measurement of structural movements.

DODGE REPORTS INCREASE IN CONSTRUCTION CONTRACTS

November contracts for future construction totaled $187,162,000 in Ohio, up 10 per cent compared to November 1961, F. W. Dodge Corporation reported.

The following breakdown of November contracts for future construction in the state was reported by Dodge regional vice president Carl S. Bennett:

- Non-residential at $56,925,000, up 4 per cent; residential at $74,132,000, up 5 per cent; and engineering construction at $56,105,000, up 24 per cent.

The cumulative total of construction contracts for the first eleven months of 1962 amounted to $1,871,359,000, a 2 per cent decrease compared to the corresponding year earlier level, according to the Dodge report.

A breakdown of the eleven month total showed:

- Non-residential at $589,102,000, down 13 per cent; residential at $919,406,000, up 14 per cent; and engineering construction at $362,851,000, down 15 per cent.
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The Art in Bronze Company, a newly acquired division of Wooster Products Inc., Wooster, Ohio, offers its 1963 catalog-brochure in color. Illustrated are unusual designs in cast aluminum and bronze identification tablets, dedicatory plaques, special designs, and a complete selection of exterior and interior cast aluminum and bronze letters.

Included in this folder are new ideas in custom designed plaques for schools, churches, hospitals and other buildings where an unusual effect is desired without the expense of sculpture work.

The Art in Bronze Company, formerly of Cleveland, Ohio, has specialized in fine, hand finished castings for over fifty years. As a division of Wooster Products Inc., it is being expanded to offer complete design, drafting, and sales service.

The new catalog-brochure will be sent without charge, by return mail. Write Art in Bronze Division, Wooster Products Inc., Spruce Street, Wooster, Ohio.

AMERICAN CYANAMID CO.
OPEN COLUMBUS OFFICE

A sales office for the Building Products Division of American Cyanamid Company has been opened in Columbus at 1229 West Third Avenue it was announced today by Keith W. Harrison, marketing manager.

Mr. John E. Royal will head the office and is responsible for sales of SKY-DOME brand skylights in new homes and residential modernization.

The Columbus office services the entire state of Ohio, western Pennsylvania and northern Kentucky.
Dur-O-wal Offers New Booklet

A new thirty-four page compendium of research studies in the masonry wall reinforcing field is now available from Dur-O-wal, manufacturers of masonry wall reinforcing systems.

Dur-O-wal considers this document the most complete gathering of pertinent research data on masonry wall reinforcement ever compiled. It includes a generous use of illustrations and statistical tables and covers such topics as: Metal reinforcing in lieu of headers, metal reinforcing in stacked bond masonry, cavity walls, with glass block, and use in combination with control joints.

Research studies from the University of Toledo and Armour Research Foundation, as well as technical background material published by various governmental and associated bodies, are included. Mortar-mix specifications for masonry walls are also covered.

The booklet, enclosed in a blue and black file folder, is available without charge from Dur-O-wal, P. O. Box 150, Cedar Rapids, Iowa.

CLEVELAND BUILDERS SUPPLY OPEN NEW PLANT

The Cleveland Builders Supply Company, a member of the Ohio Prestressed Concrete Association, has constructed and placed in operation a new plant for the processing and manufacture of precast and prestressed concrete products of every description.

This plant is one of the largest of its kind in the United States with operations completely under cover. The plant has been designed to permit production on a year-round basis, regardless of weather conditions. It has 28,000 sq. ft. of floor space, has its own concrete batching facility, is equipped with overhead traveling cranes, and a service area 22 ft. by 160 ft. in size.

Jay C. Ehle was recently elected President and Chief Executive Officer for the company. He has been with Cleveland Builders Supply for 24 years, and for the last four years served as Vice-President and General Manager.
Waiting Room on Wheels Ends Airport Walkathon

The foot-fracturing walkathon from ticket counter to aircraft that has plagued passengers at the nation's big air terminals for years, has been abolished at the new Dulles International Airport in Washington, D. C. by the introduction of the mobile lounge.

Twenty of these "waiting rooms on wheels"—the largest automotive land vehicles ever built—taxi passengers the half mile from the terminal to the parked planes in club-car comfort, sheltered from weather and the noise and fumes of the jetport.

Each of these quarter-million-dollar step-savers is capable of transporting 90 passengers at a clip. At that, it takes two lounges or two trips to fill the bigger jets now plying the international airways. And by 1975 when additional gates at Dulles International will have been constructed and some aircraft will be parked as far as three miles from the terminal building, this number of mobile lounges may have to be doubled.

It is anticipated that nine million passengers will pass through Dulles International by that date and the present 24 mobile lounge positions will be increased to 56.

U.S. Plywood, exclusive distributor of Micarta, not only supplied most of the material for the interior shell of the mobile lounge, but the company's specialists in maintenance-free interiors for the transportation industry, also furnished design and application criteria for use of their products. Specially treated, heavy-duty plywood was used for flooring, while ceilings were fabricated with Dura-ply, a resin-fiber faced plywood to which the decorative vinyl was laminated.

The interior color scheme of the lounges is white, charcoal and dark red — keyed to the decor of the new terminal building.

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Isolation joints separate or isolate concrete slabs from columns, footings or walls to permit both horizontal movement due to volume changes and vertical movement due to differential settlements.

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