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Student Fred DeSanto works on preliminary design of Chemical City Project.

Because of a post war emphasis on wide distribution of nuclear weapons, federal, state, local, and private interest in passive defense capability is expected to increase.

Congressional interest and support of fallout protection facilities in public buildings suggests a continuing and expanding amount of construction work of this kind. Schools and shelters have already been successfully combined in recent efforts of the Office of Civil Defense, namely during the National School Fallout Shelter Competition.

Police, fire, and welfare services require close coordination under normal conditions, and disasters such as high winds, floods, fires, and industrial explosions necessitate even closer coordination of such facilities. Since peacetime disasters, such as the recent Alaskan earthquake, require relief operation controls similar to what might be needed as a result of a nuclear attack, it seems probable that emergency operations centers designed to provide for both peacetime and nuclear disasters will be included in public buildings in the future whenever emergency facilities parallel and reinforce the normal functions of the building.

The Emergency Operations Center Research Project conducted by the University of Kentucky examined the problem of meeting the needs of emergency operations centers in eight different city halls—each one in a different Civil Defense region of the United States, in a hypothetical urban area ranging in population from 50,000 to 200,000, and with governmental organizations peculiar to the size and location of each city.
Eight out-of-state architects were invited to participate in the project along with the faculty and a selected group of students from the University of Kentucky School of Architecture.

The eight visiting architects worked in Lexington with their teams from August 19-29, 1964, continued to develop preliminary designs at their respective offices throughout September and October, and returned to Lexington from November 7 to 14, 1964, to construct the final drawings and models with their student teams.

On November 13 and 14, the architects presented their solutions to a group that included faculty members, students, members of the press, and members of the Kentucky Society of Architects.

A document containing the results of the project will be published and distributed during the spring of 1965 by the Office of Civil Defense to state, federal, and local governmental officials and agencies, as well as to architects and engineers throughout the U. S.
The Architects

Project Director

The Project Director is John W. Hill, Associate Professor of Architecture, School of Architecture, University of Kentucky, Lexington, Kentucky. Educated at Rice and the University of Pennsylvania, Mr. Hill taught at Louisiana State University before coming to the University of Kentucky as Associate Professor of Architecture in 1961. He is also a licensed fall-out shelter analyst.

Assistant Project Director

C. R. Carpenter who has been an instructor in Architecture at the University of Kentucky since 1963 is Assistant Project Director. He holds a B.S.C.E. from U.K. and a Bachelor of Architecture degree from the University of Pennsylvania. He was the recipient of a Schenck-Woodman Traveling Fellowship in 1962. He is associated with Graves-Hill and Associates, Architects, in Lexington.

Visiting Architect—E.O.C. Project I

The architect in charge of Project I was Giovanni Passanella, designer in charge of Design Development for Edward Larrabee Barnes, Architect, New York, New York. Mr. Passanella, who received his Bachelor of Architecture degree from Yale University in 1958, was a Visiting Critic at Yale from 1963 to 1964, and is Adjunct Assistant Professor of Architecture at Columbia University for the 1964-65 academic year.

Architect Robert Price of Tacoma, Washington at work on EOC for Forreston.

Students Nathan Nunley, Ted Gum, and Warren Denny at work on model of Coldsville.
Visiting Architect—E.O.C. Project II

Frank Schlesinger, of Doylestown, Pennsylvania, guided this project to completion. Mr. Schlesinger, a graduate of both the University of Illinois and Harvard University, formerly taught at the University of Pennsylvania, and is currently a lecturer and visiting critic at the School of Architecture, Columbia University.

Riverton
A city of 100,000 in Virginia

Riverton is a typical city in a flood region. Because of the possibility of flooding the civic center is the first structure in what would become a civic complex above ground. The center and the main entrance is approached from a plaza which is
Riverton

raised four feet from the street level.

The main level of the building contains large scale public places—such as the main lobby, council room, and police station. Isolated from other main level activities is a bill-paying area. The second level contains the E.O.C., which locks back into other areas such as the police station; the third and fourth levels contain flexible office space. A mechanical system that supplies the center functions under ordinary, emergency, and flood conditions.
III

Palmway
A city of 100,000 in Florida

Palmway—a city in the hurricane area instead of a blast area—would be hit by flood tides from the Atlantic. Therefore the E.O.C. for Palmway is on a site gradually elevated from the street, and the building itself is raised 15 feet above flood level. Surrounded by an esplanade, the building's center contains a large public space. To one side of this space are administrative offices. On another side the E.O.C. is housed. The E.O.C. contains a training room for personnel, an emergency conference room, a jail, medical facilities, a decontamination room, police, fire, and communications centers, and a garage for amphibious vehicles—in case of isolation.

Visiting Architect—E.O.C. Project III
Frederick Bainbridge, of Atlanta, Georgia, is responsible for the solution for Palmway, a city of 100,000 in Florida. Mr. Bainbridge holds a Bachelor of Architecture degree from the University of Virginia, as well as a Master's degree in Industrial Design from the Kansas City Art Institute. He has taught at Clemson College, was a designer with the architectural firm of Toombs, Amisano, and Wells of Atlanta, and has been a partner in the firm of Martin and Bainbridge, Atlanta, since 1962.

IV

Wind City
A city of 25,000 in Illinois

The site for Wind City is a city block, and the solution is a two-story rectangular building. The solution has been described by Mr. Birkerts as a "one-sided building" and as "a frustrated effort to construct a city square."

The main entrance is on the square which is in front of the building's main side. The lower building, which is lighted indirectly, houses the city clerk, the courts, fire and police department, and council chambers. Some areas here have specialized uses—such as the areas for food storage, contamination, and shelter guard; most areas, however, have dual uses. Traffic is confined for the most part to the first floor. The second floor contains clerical space, and above this level is the tower which houses city functions.
Gunnar Birkerts of Birmingham, Michigan, has lectured at the University of Michigan, designed for Eero Saarinen and for Minoru Yamasaki, and now heads the architectural firm of Gunnar Birkerts and Associates at Birmingham. Mr. Birkerts received his diploma in Architecture, from the Technische Hochshule, Stuttgart, Germany, in 1949.
Polvito
A city of 50,000 in New Mexico

Jack Mitchell realized a solution for Polvito in two buildings. One provides for a city hall and the other houses the police and fire departments. Mr. Mitchell saw no reason why the fallout shelter and E.O.C. had to be together, and therefore, in this solution, the city hall and fallout shelter function in one building; the E.O.C. is housed with the police and fire departments in the other.

Instead of walking up—as is often the direction of approach to a monumental space, one walks down to enter these buildings. The orientation is downward in order to cool them. In addition, there is a moat around the buildings, which produces a cooling effect and protection from radiation. Wide overhangs have been included to provide shade.

Visiting Architect—E.O.C. Project V
Jack Mitchell, from the firm of Wittenberg, Deloney and Davidson, Little Rock, Arkansas, is a former Assistant Professor of Architecture at Texas A. and M. He holds a Bachelor of Architecture degree from Washington University, St. Louis, a Master's in Architecture from the University of Pennsylvania, and a Master's in City Planning also from the University of Pennsylvania. Before joining Wittenberg, Deloney and Davidson as associate in charge of design, he was associated with the architectural firm of Helmuth, Obata, and Kassabaum of St. Louis.

Visiting Architect—E.O.C. Project VI
The center for Coldsville, a city of 50,000 in Colorado, was planned by William Muchow. Mr. Muchow has headed the architectural firm of W. C. Muchow Associates in Denver since 1950. He holds a B.S. in Architecture from the University of Illinois, and Master's degrees in Architecture and City Planning from the Cranbrook Academy of Art. He has taught at the University of Illinois and in Colorado.
Emergency operations are carried on on five floors along with normal functions—which are basically oriented horizontally as opposed to vertically.

Visiting Architect—E.O.C. Project VII
Charles Moore of Berkeley, California directed the solution for Tortilla, a city of 200,000 in Southern California. Mr. Moore is Chairman of the Department of Architecture at the College of Environmental Design of the University of California. His degrees include a Bachelor of Architecture from the University of Michigan, a Master of Fine Arts in Architecture from Princeton, and a Ph.D. in Architectural History also from Princeton. His former teaching positions were at the University of Utah and at Princeton. He is a partner in the firm of Moore, Lyndon, Turnbull and Whitaker.
Awards
Luncheon

On November 14, the University of Kentucky School of Architecture held its annual awards luncheon at which scholarships and awards were presented to the following students...

Robert Kingsley of Louisville, the Charles P. Graves Book Award for high grades in third year design.

Larry Lester McMahan, of Campbellsville, the Faculty Award for highest standing in the upper class.

Marcus Gordon Trumbo, Lexington, the Faculty Award for highest standing in the freshman class.

Paul Martin Pinney, Lexington, and Norman Kenneth Berry, Frankfort, the Portland Cement Association Annual Travel Awards—for a three day trip to Chicago including a trip through Portland's plant there.

Robert Guinn, of Louisville, Charles Hutchinson, of Shelbyville, and John David Grossman, of Berea, all third year students, $100 semester awards for two semesters, presented by the Kentuckiana Bureau for Lathing and Plastering, Incorporated.

Larry Lester McMahan, second year student, the Kentuckiana Bureau Award for $100 per semester for two semesters.

Robert Koester, Russellville, a first year student; Richard Hammer, Bowling Green, a second year student; Charles A. Wiechers, Jr., of Lexington, a third year student; and Joseph Williams, of Anchorage a fourth year student—each $100 awards from the Paul O. Schubert Company.

Paul Pinney of Lexington, a fifth year student, the Schubert Company award for $250.

Ted Gum, a Lexington senior, the architectural history award for the highest academic standing in five semesters of architectural history.
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The Kentucky Architect
G. Holmes Perkins
Speaks At Convention

In his address at the Kentucky Society of Architects Convention on Friday, November 13, G. Holmes Perkins discussed the role of the architect in our society, a society in which he sees our cities being replaced by a total environment.

To Mr. Perkins, our cities are the exponents of the most revolutionary ideas in architecture. He cited Siena and Venice, with the distinctive characters of their sites, as examples of cities built in the past which we admire today. We also admire clarity, coherence, and unity today. But says Mr. Perkins, we must agree with Ovid that only change is permanent. He cited the growth of London after the war as significant of this. London doubled in size, and with this acceleration of growth came a new complexity and a new scale. The man living in such a city today cannot be the full man—performing all roles in one structure as he could during the medieval period. Instead, he is a fragmented man spending his time in many places—each activity and place performing a specific function in the whole.

Briefly, Mr. Perkins outlined three major revolutions of the last 150 years as being the cause for the change in our views. One, the industrial, brought on unlimited productivity; the second, a technological revolution brought in the automobile and utility systems each with their complex systems—of highways and underground networks. The third transformed our religious and social ideas, changing our attitude toward nature. If medieval man feared nature, and renaissance man sought to control it, twentieth century man, Mr. Perkins says, possesses a growing understanding of his oneness with it.

Our complex cities he blames on an opposite attitude—a desire and attempt to push nature out of the scheme of things—he pointed to the New York slums as one of the worst offenses—blaming them on a nineteenth century health law which outlawed back to back housing.

Mr. Perkins sees our cities as vulgar and chaotic and challenges the architect to show us the way out of this wilderness. He sees the problem as not one of shortage, but as one of making a wise decision. There is a new scale, but man still has his division of interests—family, friends, and commercial interests being separate. The problem is in producing order out of these many parts.

He says we are almost forced to fabricate, we definitely cannot expect the hand crafted element any more. He sees the question as being—how can we produce quantity, and preserve that particularity to be different, to not have to live in a cell ... in meeting the problem of city building. He feels that far more knowledge is needed, as well as new professions which deal with the total environment. Therefore, he suggests a reorganization of the profession within the next 50 years comparable to what was done in the medical profession some 50 years past. This would include an emphasis on general practitioners, plus a call for far more specialists than we have now. From this reorganization, would emerge ideally, an interdependence of research and practice.

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say Mr. Perkins, is to concentrate on man's spiritual and mental welfare—especially since if left alone man is too adaptable for his own good—he can put up with almost any level of environment. This calls for an examination of the architect's values. Designs should promote (1) the social values of the community, the rights of the individual, (2) promote the individual's freedom of choice, (3) reflect the oneness of man and nature, and (4) promote change and be able to accept and adapt to change. Mr. Perkins feels that this last goal leads the architect to a search for growth systems. He finds that the symmetry of the ren­aissance is no longer practical in our system; he contends that we are in need of the solution to mass produc­tion, while still remembering that for the architect the highest that he can give is beauty.

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