

Kenneth R. Fuller
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Denver, Colo 80202





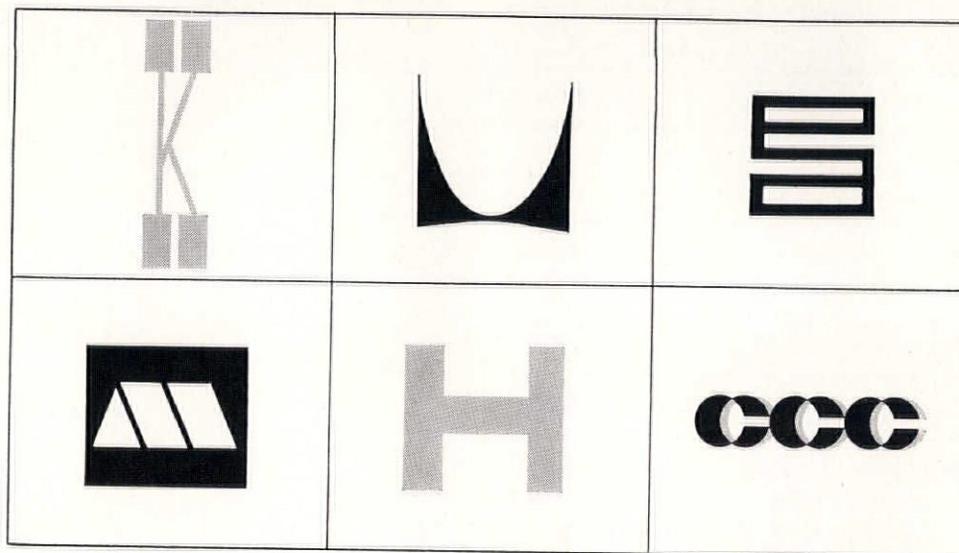
First Church of the Nazarene, Greeley. Architect: Anderson • Barker • Rinker.
Contractor: Keith Hendrickson. Masonry Contractor: Forsythe Masonry.

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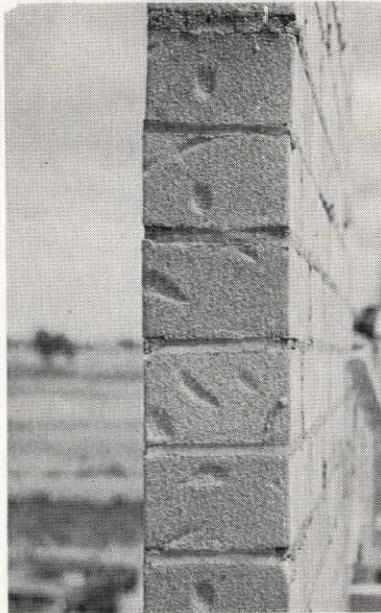
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building blocks

THIN WALL...

new masonry technology



Left: Four-inch masonry production with high bond mortar in process on the Franklin Building—closeup of thinwall masonry at Wood Brothers offices—Right: Twin tee pre-cast floor sections being laid with direct bearing on four-inch walls.

Thin wall, load-bearing "monolithic masonry" is in answer to van der Rohe's architectural admonition "less is more." "More" floor space by using "less" wall is the impressive advantage of dietetic wall design, the result of using high bond mortar additive in the construction of load-bearing brick walls and partitions.

A "first of a kind" concept is found in Michael W. Lombardi's design for the Franklin Corporation's office building, a three-story, thin, four-inch brick-walled structure in Denver, with Gage B. Behunin as masonry contractor. In Lakewood, Robert C. Huston is the architect on the 2½-story office building for Wood Brothers employing a similar construction technique, with FHF Brick Contractors.

Stimulating such innovations as walls of half the thickness possible with conventional mortar is Sarabond® brand high bond mortar additive developed by The Dow Chemical Company. The resultant savings in wall space in both

office buildings mentioned above has been preserved by adoption of the Miller System of insulation and finishing . . . i.e.: Dow Insulation Mastic No. 7 adhesive used to bond Styrofoam® brand plastic foam insulation and drywall, with no studding, no nailing or lathing required. A U factor of .12 or better is possible, depending upon the thicknesses of foam and dry wall.

ASTM E-72 tests of walls using high bond mortar have verified a much greater bond strength . . . at least four times that of walls made with conventional mortar; yet little change from traditional masonry practices of preparation and handling are required. Other advantages cited for architectural freedoms are reduced construction costs, excellent resistance to water penetration, less building weight, faster masonry schedules, higher load-bearing capacity, and proven higher tensile and compressive strengths. Sample testing of the

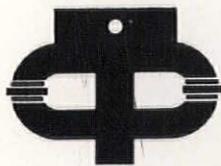
Franklin building have confirmed a compressive strength in excess of 12,000 lbs. per square inch for the masonry walls.

Throughout the U.S., high bond mortar containing Sarabond® brand additive has made possible in-place curtain walls of greater height, and factory prefabrication of masonry panels for walls and balconies. Hazards of water, temperature change, deterioration, impact, and chemical action have been largely overcome in projects employing brick, structural glazed facing tile or brick pavers for factory production areas, pedestrian plazas, columns, towers, sewers, fences, fireplaces, arches, beams, and even a planetarium.

Available at local brick companies, further information, as well as design and field engineering assistance, can be secured from Roland B. Proett, architectural engineer in Dow's Denver office, at 216 Security Life Building, (303) 266-2329.

"EVERYBODY TALKS ABOUT THE WEATHER, BUT..."

Prequalifying bidders gets the job done right the first time around. With more construction coming in the next 20 years than there has been in the last 200 years, it's time the bidding climate receives something more than passing comment. Why support a mirage that makes the short-term dollar look better, while sacrificing solid over-all profits and better building? The next time you want everybody to bid, ask yourself what you've done for the building industry lately.



COLORADO PIPE TRADES INDUSTRY PROGRAM

2727 WEST SIXTH AVENUE AT THE NEW PLUMBING SHOWCASE

266-1935



NEW CHAPTER? Let's remove the question mark! Denver members of the Construction Specifications Institute are urged to rally round Tony Murray and Larry Bourn, and get that new Chapter in Colorado Springs on the road! You'll have to admit CSI is a very good road to be on.

RETIRED: John Lonergan and Kep Brierley have closed up shop. J&K Construction, long a top GC Firm in Denver, is no more. Both John and Kep have served the ABC (Colorado's Building Branch of the AGC) for many years . . . and in many capacities—as a matter of fact, both men are Past Presidents of this fine organization.

Always a leader! Verne Konkol, CEC, Symposia Board member, has been appointed to the Steering Committee of the Forward Metro Denver Committee of the Denver Chamber of Commerce.

Joe Boehning reports that John Reed, AIA, and material salesman, Mack Bryant took the honors in the State AIA Golf Tournament Palmer/Nicklaus/Trevino—please copy!

Ye Ed will represent Region 8 on the national Education and Public Relations Committee of the National Association of Women in Construction.

Proud Papas! And no wonder! Susan Werhan, daughter of AGC Director Glenn Werhan of Lovington, New Mexico has just been crowned the 1968 sweetheart of that state's De Molay Chapters. Stan Borthwick, New Mexico Building Branch (AGC) Pres. is popping his buttons over daughter, Sandie, who has just won the Dow Jones-National Observer Award for outstanding work in Journalism. Sandie was editor of Highland High's "Highlander," is Youth Page reporter for the Albuquerque Journal and past president of the New Mexico High School Press Association. She will go to college next month—her major? —journalism, what else?

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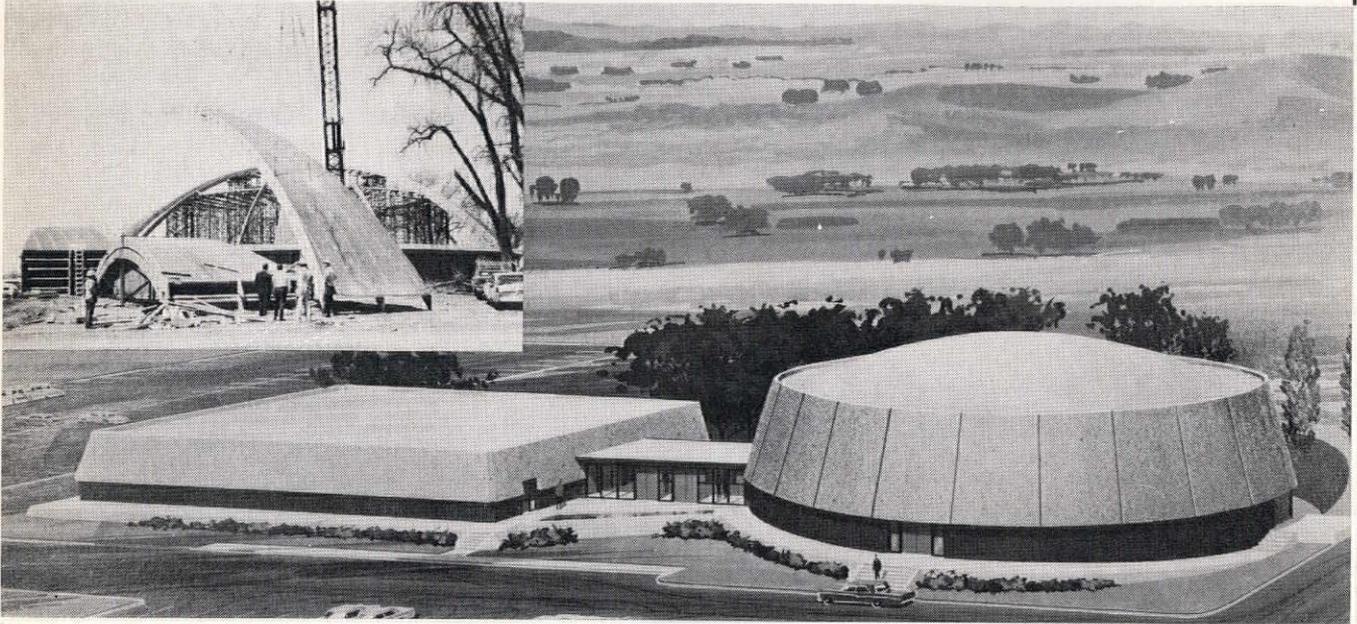
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New Thin Shell Dome for Adams County Community Building

Architect: Williams and Johnson, Greeley, Colorado

Engineer: Richard Weingardt & Associates, Sterling, Colorado

Contractor: PAF (Pan American-Falcon) joint venture, Denver, Colorado

Bill Williams, Architect, states: "The dome for the arena required a material that could be used as form, insulation, and acoustics. Tectum was selected because it satisfactorily met all requirements of the project, went into place quickly and easily and was very economical."

D. R. McArthur, Sr., Project Manager for Pan American-Falcon comments: "Construction **time and crew** was reduced by 50% over conventional forming methods in that the Tectum Form Plank permitted a one step operation. This was made possible because the Tactum acted as both a structural form and as insulation."

This unique forming system developed by PAF utilized a pre-engineered laminated wood form and Tectum Form Plank. The light weight Tectum easily conformed to the curvature of the dome and because of its great structural strength was able to support all loads imposed during the pouring operation.

Forms were assembled in segments on the ground and then lifted into place. The Tectum Form remained in place after stripping and provided the insulation and base for the application of acoustical plaster.

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Under the guidance of those two golfing renowns of Albuquerque . . . Joe Long (Gathman and Long, Architects) and John Reed (Winner of the AIA Golf Tourney), the second annual CSI Golf Tournament and Steak Fry will be held on August 13. Slated for the Arroyo del Oso Golf Course, Joe and John are working with the Southern Union Gas Company to provide a top program for this event. FORE!

Busy Max Morton (N. G. Petry Construction) has been named recently as Vice President of the Denver Chamber of Commerce to head up the Special Project Division.

Dating from July 1st, Dick Dearing (Natkin and Company) and his family will call Honolulu "home, sweet, home!" Dick has gone to the Islands in a management capacity for a gentleman whom he met for the first time at the Physical Plant Administrators Convention in Colorado Springs where he appeared as a panelist.

Don Wakefield, SCPI's Skipper in Denver, forwards a note in re: the summer secretary for the Colorado Mason Contractor's Association. She is pretty Janet Christina Hinde who was recently accorded the Montgomery Ward/Denver Post Salute as an Outstanding Teenager. Number one in her graduating class at John F. Kennedy High School, Janet has been active in her church, as a Girl Scout, Candy Striper—a host of school activities including Queen of the Junior Prom . . . you see, Chris is pretty, too.

The 12th semi-annual Board of Director's meeting of the Consulting Engineers Council/United States will be held October 28-29 at the Princess Kaiulani Hotel, Honolulu.

overture: csi/region 11 annual conference

With the performance of the Construction Specifications Institute Region 11 Conference less than two brief months away, Host Chapter Tucson is on the podium and all set to begin the Overture. The dates, of course, are September 27, 28 and 29, and the grassroots CSI business will be conducted in a manner and atmosphere typical of Tucson locale. Instead of the usual hotel-motel accommodations, CSI/Region 11 visitors will be accommodated at guest ranches located in the mountain areas surrounding the city.

Let us take a cursory run-through of the Score for this gathering. On Friday, September 27, the opening note of hospitality will be sounded at an after-dinner patio cocktail party hosted by Tucson Chapter members.

On Saturday morning, delegates will board buses to the site of the business session in Old Tucson. Old Tucson is a routin'-tootin' movie set replica of the town as it was . . . way back when. Wives and offspring will join the delegates for a buffet luncheon and for entertainment provided by Los Changuitos Feos, a renowned mariachi group of a dozen teen-agers under the direction of Reverend Charles Rourke. On the more serious side, Denver's Chapter of the CSI will bring to members of Region 11 an outline of their highly successful Educational Program.

Saturday afternoon is open for a selection from four interesting tours provided for guests—"Old Tucson," the famous Arizona Sonora Desert Museum, the astronomy facilities atop Kitt Peak or a visit to the "White Dove of the Desert"—San Xavier Mission.

After buses whisk visitors back to their guest ranches for a quick shower and clean up, Saturday's events will conclude with an old-fashioned outdoor Western steak barbecue under the cottonwoods. Tucson members have put in a special order for water for the nearby stream so it will conveniently babble during the festivities.

On Sunday, September 28, golf matches are being arranged and two trips are recommended for "explorers": Mount Lemmon, just forty miles away, is 9,000 feet in elevation, cool, colorful and pine-scented with fine eating facilities, and/or the new gallery of famed Tucson artist, Ted de Grazia.

Writes Concertmaster Bernie Kinsock—

"The registration cards and complete rate information will be mailed early in August. Registration rates will be lower before September first, so it would be well to decide early to attend. Indicate on your registration blank when and how you plan to arrive in Tucson, and the reception committee will meet you and escort you to the ranch. We would enjoy having you visit and hope you can be persuaded to give serious thoughts to include Tucson in your September plans."

Mr. Kinsock also indicates that Tucson hopes to have Mr. Joe Gascoigne, Executive Director of the Institute, as a guest during the Region 11 Conference.

The stage is set—and the opening notes of the Overture will soon be heard. Symposia would wish CSI/Tucson the best and brightest—as they conduct this important regional event. Certainly, the audience may expect a stellar performance at the Region 11 Conference in Tucson in September.

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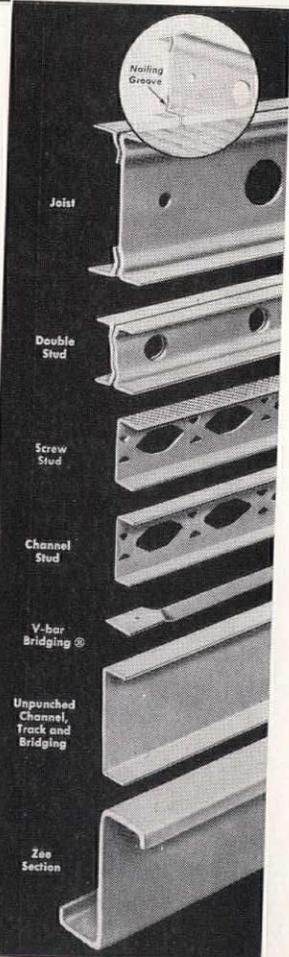
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5 the active 5 a program for total chapter participation



by Robert J. Schmidt, President
Albuquerque Chapter
Construction Specifications Institute

"The Active Five" is the designation coined by the Albuquerque Chapter of the Construction Specifications Institute to identify their new and challenging technical program. By the establishment of five technical committees working concurrently on preparing information in accordance with the latest CSI Technical Guide, the Chapter takes a "giant" step forward.

Starting in about October, the program of the regular meeting will consist of a presentation by one of these committees of their subject in a "final draft" condition. After their presentation, the assembled membership, during a question and answer period, will have an opportunity to express their opinions and comments on the subject just presented. At the conclusion of the meeting, all members attending will receive a written copy of the final draft of this particular technical paper. They will be requested to present any written comments, after further study, to the chairman of the committee, within the following ten days to two weeks. After analyzing these verbal and written comments, the committee will then finalize their particular technical paper. At this point, we expect to forward it to the Institute.

In this manner, a great number of the members will be able to participate in all of the technical papers. As soon as one of the committees has completed its particular assigned task, an additional committee will be appointed from a waiting list of paper subjects accumulated during this process. At the present time it is anticipated that one of these presentations will be made approximately every other month. There are two major benefits we can derive in the Albuquerque Chapter from such a devised program—namely, the involvement of many of the members and the establishment of a program which can carry from one year to the next. It is our hope Symposia will hear a great deal of THE ACTIVE FIVE from Albuquerque, starting this fall or winter.

The Technical Program Chairman for the Albuquerque Chapter is Dick Henderson, Supervising Engineer for Buildings with Mountain States Telephone. Dick has already laid a great deal of groundwork to get this program started. He is the one who was in charge of Albuquerque's first attempt in putting on the 15-week specifications course completed in May of this year, patterned on Denver's outstanding format.

The five chairmen who have accepted "Active 5" duties are three present members of the CSI chapter—Ron Ferreri (Prestressed Concrete Products, Inc.), Bill Carroll (Bill C. Carroll Co.), and Bob Uhl (Uhl and Lopez, Consulting Engineers)—while the other two chairmen have submitted their applications for membership in CSI at the same time as they have accepted the job of being committee chairmen. These are Don Paxton (Bridgers and Paxton, Consulting Engineers) and Garlan Bryan (Flatow, Moore, Bryan and Fairburn—Architects, Engineers and Planners). Those who are familiar with the construction industry in the Albuquerque area are immediately aware of the "blue ribbon" tag placed on this list of committee chairmen. They are certainly outstanding members of the construction industry in this area in their particular fields of endeavor.

("The Big Five" indicates a most precocious maturity for the Albuquerque CSI Chapter, which—but a few brief moons ago—we termed the "biggest baby." Bob Schmidt is only the third president to serve this "goim" group, and like his predecessor, Mr. James Cushing, we are proud to number him among our Symposia Editorial Board Members. The evident concern by all members of the architectural/engineering/construction community of the "Land of Enchantment provides us all with new impetus in providing communications for all members of this Industry within our Region.)

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L'ENVOI



Frederick P. Weaver, F.A.I.A.

He wrote as he spoke—softly—this gentle man whose hands were those of an artist, whose eyes betrayed his great sensitivity. Yet, we who knew him were well aware of his lion-heart, and of his great strength.

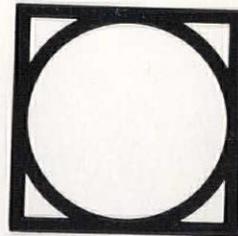
In 1964, Fred Weaver was elevated to Fellowship in the American Institute of Architects for Public Service. Of this honor, he wrote: "The pride in the Institute and my fellow architects, who were so gracious in my behalf will never be forgotten, nor will I ever be content to coast on my laurels in this area."

When brought to task by a fellow architect for a "critique" published in *Symposia*, he answered briskly, "I think it's time we all grow up and realize that every time we do something as a professional group or as individual architects, we must not expect the accolades of everyone. I am sorry you disagree with me because I admire your abilities as an architect, and your service to the profession, but please don't tell me my obligations or what I shall write as my opinions."

So—there was steel, you see, beneath the velvet glove. And humor too, droll quiet humor. Commenting on the cost of \$16.8 million for the Phoenix Cultural and Convention Center, he wrote: "And **that** is a helluva lot of culture!"

Each month during his brief stay on *Symposia's* Editorial Board, the letters came—informative, often witty, always wise. He was generous enough to regard us kindly . . . "Since I've been around long enough to remember 'Pencil Points' I kinda like to think of *Symposia* as the Pencil Points of the Western Region."

And then—our last communique from Weaver and Drover, Architects—when Richard Drover, his professional and beloved associate of almost two decades wrote . . . "Your great friend and my dear partner passed away May 30th." This great loss sustained by Dick Drover, by Fred's fine wife and wonderful family is echoing now throughout the Western Mountain Region—he had so many friends! It is a realization that comes slowly, and with many small acts . . . deleting a name from a masthead, boxing up a bulky correspondence file, the sudden remembrance that the sage advice and the considered opinion is no longer there.



Does the road wind uphill all the way?

Yes, to the very end.

Will the day's journey take the whole day long?

From morn to night, my friend.

But is there for the night a resting place?

A roof for when the slow, dark hours begin.

May not the darkness hide it from my face?

You cannot miss that inn.

Shall I find comfort, travel-sore and weak?

Of labour you shall find the sum.

Will there be beds for me and all who seek?

Yea, beds for all who come.

—(Christina Georgina Rosetti—"Uphill")

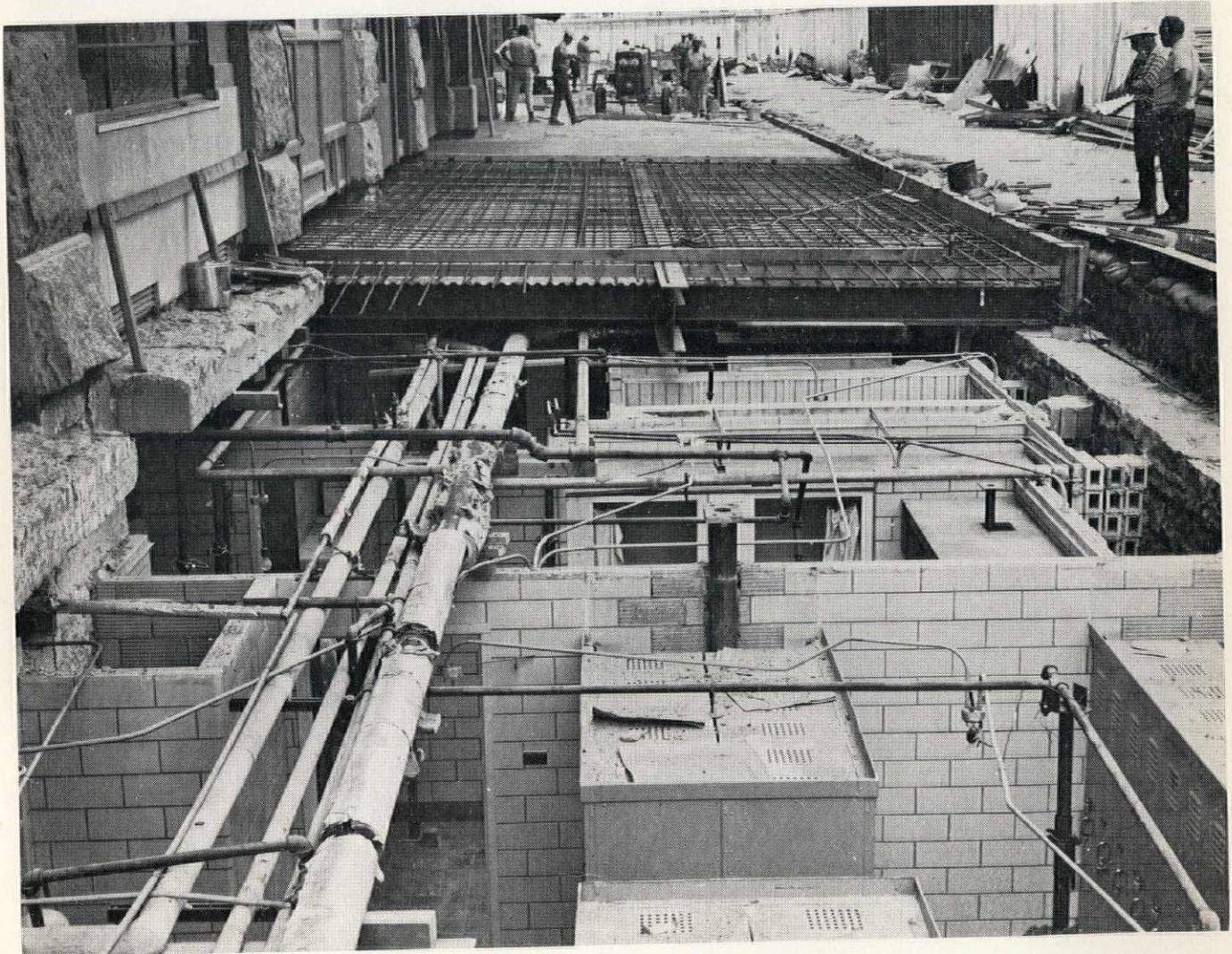
SIDEWALK REPLACEMENT PROJECT BROWN PALACE HOTEL/DENVER, COLORADO

Long a Denver landmark, the historic Brown Palace Hotel recently presented the firm of David E. Fleming, Consulting Engineers, with a design problem of no mean proportions. Brown Palace officials asked for a design for the demolition and replacement of 12,500 square feet of sidewalk which had been installed over 75 years ago and roofed important Hotel utility areas. What compounded what would seem a simple engineering problem was the additional criteria. Work had to be accomplished without disturbing the comfort of guests, with a minimum of trouble to traffic, with a design as strong as a highway bridge, conforming to existing grade and using the 75 year old spandrel girders between the foundation columns, without welding. Work was to be completed with-

in ninety days and would incorporate such extra features as weather-proofing, ice-melting facilities and restricted depth of slab design.

The Fleming firm began field surveys just two years ago this month finding it difficult to establish the locations and sizes of the existing steel support beams, girders, and stone columns. There was also piping and other embedded interferences. It was not possible to accurately determine the existing layout in all cases.

Our report of the engineering design problems and how they were met comes to us from the David E. Fleming firm of Consulting Engineers in Denver. Construction photos are from the Lainson Studios.



BROWN PALACE HOTEL SIDEWALK RENOVATION

Report from:
David E. Fleming/Consulting Engineers
Denver, Colorado

The existing walk consisted of riveted steel beams and box girders with tension tie rods supporting the brick masonry barrel arches. A series of multiple arches had been filled level with masonry and cobbles to support the concrete walk on grade. Original curbs were cut granite stones which were to be replaced by concrete curbing along 17th Street and a portion of Broadway.

The walk had been overlaid in place with bituminous surfacing at various times to reduce leakage and supporting steel spandrel girders supporting the perimeter of building were installed around 1892.

The walk formed the roof over much of the hotel's utility and service areas: the boiler room (which also projected under most of Tremont Street itself), the receiving and unloading areas, air compressor room, bakery, dishwashing area, transformer vault, valet shop, printing shop, maintenance shop, and the lockers and showers for hotel personnel.

Designs were started in January, 1967 based on field surveys.

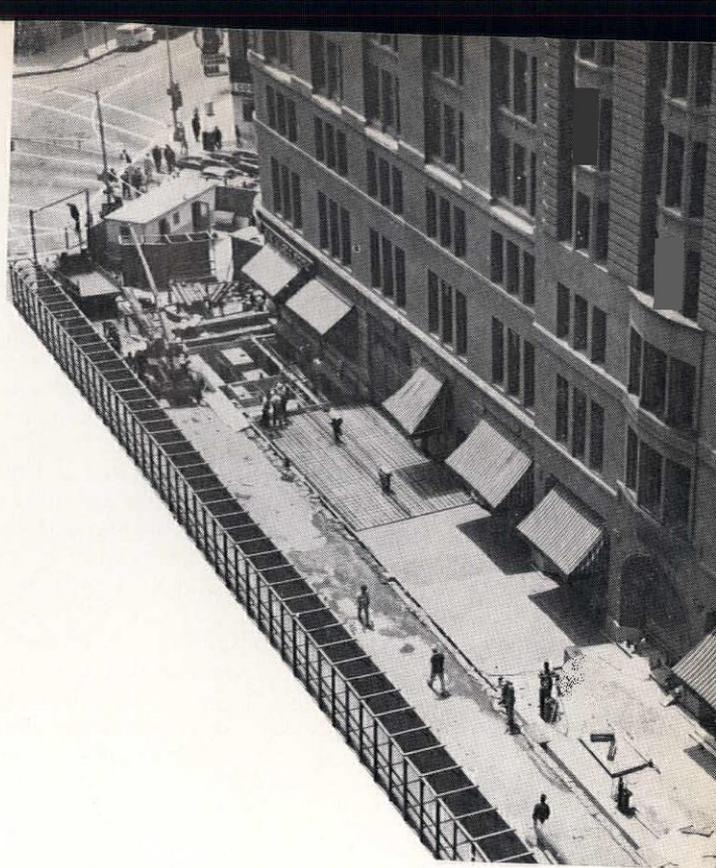
Existing conditions and job requirements imposed stringent and difficult criteria on the design. Principal requirement was waterproofness so a double concrete slab with waterproofing membrane was adopted. The new slab had to conform to the existing grade around the building and, for the most part, to the existing gutter lines at the street side. Over-all depth of new slabs and supporting beams was limited by existing equipment and piping, and lateral supporting beams had to tie to the spandrel girders between main building columns at same locations as the existing beams. Connections at these points were restricted to bolting to the spandrel girders using the original rivet holes since the weldability of the 75-year-old steel girders was unknown. Current municipal building codes required slab and supporting structure be designed to carry an H-20 highway loading.

The adopted design consisted of steel support beams and concrete deck having a nominal overall depth from finished walk grade to bottom of support beams of 21½ inches. A combination of 10-inch wide flange steel beams with 8-inch reinforced concrete structural slab was used on one side of the hotel while 12-inch beams with a 6-inch structural slab were used on the other two sides of the triangular shaped building. Waterproofing was accomplished by a five-ply bituminous membrane located between the structural slab and the top slab. The waterproofing membrane was flashed and counterflashed at the building walls and around manholes and hatch openings in the walk and was continued over the edge and down the outside face of the slab and supporting wall at the back of the curb on the street side. The top protective and wearing slab was a conventional welded-wire mesh reinforced sidewalk slab approximately 3 inches thick with standard tooled and expansion joints. All transverse expansion joints and critical lengths of joints along the building were sealed with a two-component polyurethane paving joint sealant. The more protected lengths of joints along the building and the joints at the curb side were sealed with a hot-poured bituminous sealant.

All steel was grade A-36. Connections at the existing spandrel girders under the building perimeter and at certain

longitudinal splices were made with high-strength bolts. All other connections were made by welding with E-60 electrodes. The principal structural elements ranged from a 10-inch channel weighing 15.3 pounds per lineal foot to a 12-inch wideflange section weighing 190 pounds per lineal foot.

The structural slab was specified to be 3000 p.s.i. stone concrete with two layers of steel bar reinforcement in each direction. Bottom forms for the structural slab consisted of corrugated galvanized steel decking, spanning the structural steel beams, spot-welded to the beams and left permanently in place. The top slab was a standard mix design as specified by the city with one layer of welded wire mesh reinforcement. Contractor for the project was the N. G. Petry Construction Company of Denver, Colorado. Limitations imposed on the method of accomplishing the work required extremely close coordination between the hotel, the engineer and the contractor, as well as expert planning and management by the contractor of his construction operations. Access to the hotel could not be curtailed. The amount of walk blocked off for demolition and replacement had to be kept to the practicable minimum and the reconstructed walk opened to pedestrian traffic as soon as possible after completion. The hotel is situated in one of the most heavily congested areas of traffic in Denver, and through traffic on all three of the bordering streets had to be maintained; space for barricades and the contractor's operations was limited to one or two traffic lanes. With the exception of the valet shop and the printing shop, the equipment and services in the underlying areas could not be moved or operation suspended during construction. Noise and dust had to be controlled. With the hotel's basement opened from the building line to beyond the gutter line in the adjacent street, protection from summer rainstorms was a major concern, and was accomplished by means of sand bags along gutter lines and a plastic covering placed on temporary supports at the end of each work day. With the original construction having been done back before the turn of the century and countless remodelings since that time, it was certain that



unforeseen pipes, conduits and structural connections would be encountered.

Construction started on June 19, 1967, when the contractor moved in his project office and started erecting barricades. Demolition decking was required and installed under the sidewalk prior to removal of the existing walk throughout the entire job. This was a difficult operation in most of the areas, and in particular in the compressor room where equipment and piping filled the space to the ceiling with scarcely space for men to work or place shores; in the boiler room where the height of the decking was some 25 feet above the floor and temperatures above the boilers and piping ran 130 degrees; and in the transformer vaults where decking had to be placed and the old sidewalk demolished and removed with only inches of clearance over the high tension buses and with the attendant realization that a mishap could result in serious injuries to the workmen or could cut off all electrical power to the hotel.

Construction started at the north end of Broadway and progressed south to the corner at 17th Street and Broadway; then picked up at the north end of Broadway and continued around the corner, southwest along Tremont Street to 17th Street; then from the Broadway and 17th Street corner northwest down 17th Street. Installation of demolition decking and removal of the old sidewalks and curbs progressed continuously. Steel was partially shop fabricated and cut to final length and final connections fitted on the site after the specific measurements could be made. The concrete structural slab was poured in sections consisting of two bays (approximately 40 feet) at a time on a three-day cycle and was moist cured with wet sand. Upon completion of 6 to 8 bays, the membrane waterproofing was applied. In order to permit the work to continue on a 3-day cycle, Type III (high early strength) Portland Cement was specified and the waterproofing was applied the third day after pouring of the last bay in the section. The top wearing slab was poured in alternating bays on the two days following the application of the membrane waterproofing, and was cured by use of a sprayed-on membrane curing compound.

Constant and close coordination between all forces involved in the project solved difficulties as they arose and enabled the job to be kept on the extremely tight schedule.

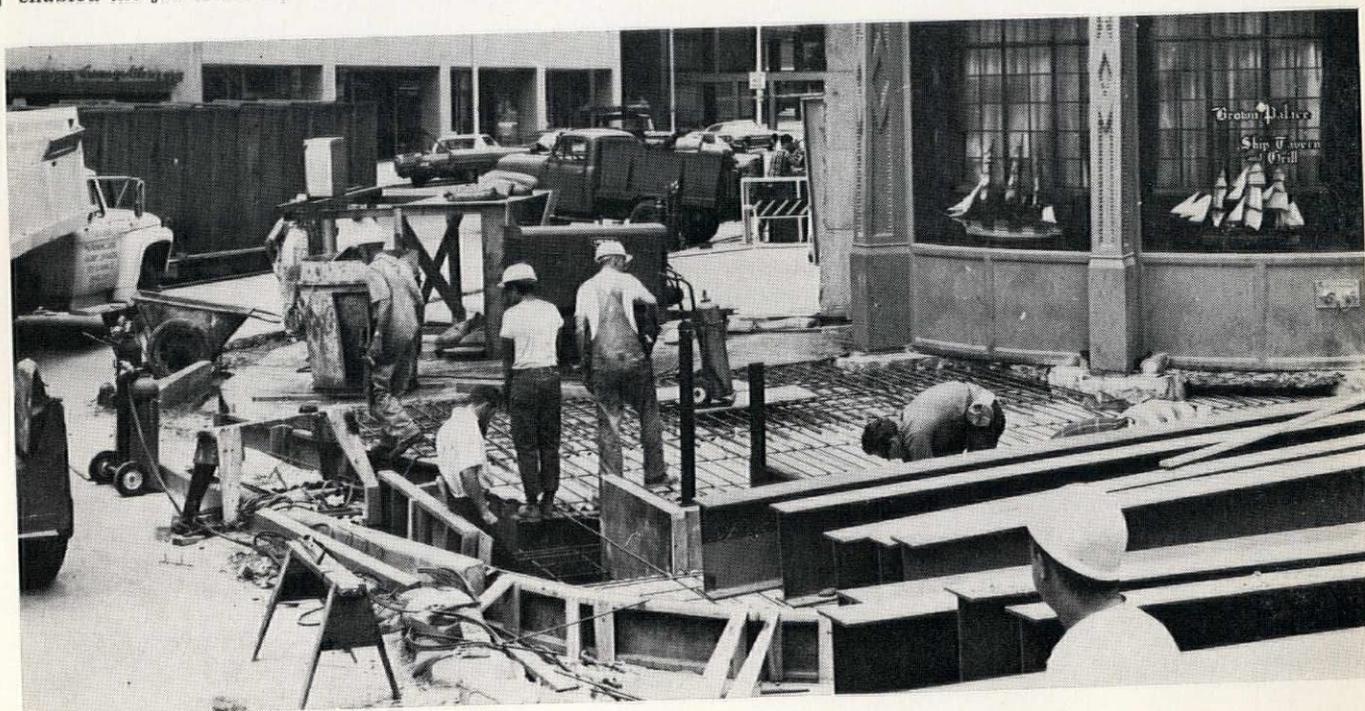
Weekly project meetings between the owner, the contractor and the engineer were held at the hotel. The contractor's project manager kept constantly on and below the surface at many locations in a very limited space. Daily inspections were performed by a member of the Engineer's staff and representatives of the City Engineer's office checked the work periodically. Problems and unforeseen complications encountered when the old walk was opened up were noted immediately by a member of the engineer's staff, relayed to the engineer's office where the designs were modified or supplemental designs and details prepared, and the new designs furnished to the contractor for fabrication and installation prior to placement of concrete.

Concrete quality was controlled by inspections and tests of every structural slab pour and random tests of the sidewalk top slab pours by a private testing laboratory. Concrete was checked at the job site for slump, temperature and air entrainment and the compressive strength determined by breaking two cylinders in the laboratory at three, seven and twenty-eight days of age. The first of the 20 structural slab pours was made July 5 and the final pour made August 31. The sidewalk top slab and curb was placed in 18 pours starting July 21 and completed on September 7. The 28-day strengths of the concrete generally averaged above 4000 p.s.i.

Finishing work progressed as rapidly as the shoring could be removed. New insulation and supports were installed on suspended conduits and piping. New ceilings were installed or the steel and corrugated ceilings painted as appropriate.

An embedded snow melting system was installed in the top (sidewalk) slab at the main entrance. New elevator, vault and manhole covers were installed throughout. Street signs and parking meters were installed on specially designed anchors embedded in the top slab when poured to eliminate the probability of puncturing the waterproofing membrane by later installation in the conventional manner. New street light standards were installed by the city concurrently with the contractor's operations.

Construction was substantially completed, the final barricades removed, and the last section of the sidewalk opened to the public on September 15, 1967, on schedule 89 days after start of construction.



AGC TACKLES THE MANPOWER PROBLEM

"We have been dragging our feet and find ourselves little time to prepare for the manpower needs of the 1970's," emphasized Gerald Kuhn, training coordinator for the Plumbing and Pipefitting Industry in New Mexico, during the mid-year meeting of the New Mexico Building Branch of the AGC in Hobbs. "Training," he said, "must begin now. Surely we can beef up our programs to meet the needs of tomorrow without turning to government controls today!"

Mr. Kuhn was one of five panel members which discussed **Manpower**, moderated by Lovington General Contractor Glenn Werhan, which addressed itself to this Industry challenge on June 8. A positive approach was taken by Dr. I. E. Siegenthaler, Dean of Vocational-Adult Education at New Mexico Junior College. Reported Dr. Siegenthaler — "Education and training would go a long way toward helping solve some of our great social unrest that we have today and at the same time provide the skills and job opportunities available in our economy." Occupational education should begin at the high school level, he said, and continued: "We have oversold the B.S. and B.A. degree as the key to success in our society. A more realistic goal for some two-thirds of our high school graduates would be some type of post-high school occupational education."

Alva J. Coats, manager, New Mexico Building Branch, dealt with the requirements of the "Affirmative Action" program. Contractors on federal and federally-assisted projects are required, he said, "to develop a written 'affirmative action' program to employ the disadvantaged, the drop-out, the hard-core unemployed."

They must "reverse the process of many years and screen in—reclaim—the hard-core jobless, drop-outs and rejects—and mold this large group of relievers into employed persons and taxpayers." In conclusion, Mr. Coats said . . . "We must adapt our school programs to more effectively utilize the potentials of these minority groups in our respective communities. The contractors have begun with what they've got, and have the conviction and firm resolve to achieve this; but we must have everyone's help!"

Stressing again the importance of education, R. N. Tydings, Hobbs' Superintendent of Schools, said there was a



CONTRACTORS SET TRAINING PROGRAM — Left to right: James D. McTigue (Executive Secretary of the Associated Building Contractors), Richard O'Brien (Contracting Lathing & Plastering Association of Denver), John N. Johansson (Associated Building Contractors), Philip Kniss (Colorado Laborers' District Council), Ted Doxtater (Coordinator for Colorado Laborers District Council and Employers Training Program), L. C. Dickerson (Laborers' International Union) and Norman Buller of the training program. Members of the Committee not present at this meeting were Walter Rothermel of the Colorado Masonry Contractors Association and J. T. Gilmore of ABC of Colorado.

"lack of motivation" among youthful hard-core unemployed. "We need to convince them," he stated, "that there is something honorable about a job well done. We must prepare them in the attitude toward working early and provide a school curriculum to meet their individual needs in occupations. There will always be more need for the technically trained individual and we cannot wait until college to begin vocational education. These individuals can be prepared for work much more economically than we can keep them on welfare."

Action certainly speaks louder than words . . . and the Region's Contractors working through many committees have already some "concrete" examples of their manpower training programs. For instance, the Cement Masons' pre-apprenticeship Training School in Albuquerque graduated its first class on July 3 as a dozen trainees poured and finished 1500 feet of sidewalk on the Technical-Vocational Institute campus. The concentrated six-week training course was conducted under provisions of the Manpower Development Training Act. "These new cement mason apprentices, recruited largely from the "hard-core" unemployed, can now go on the contractor's project and earn their pay from the

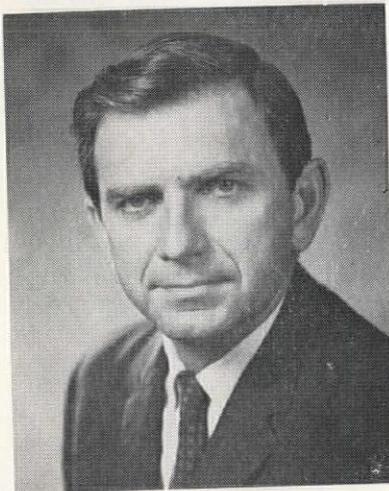
first day," commented M. B. (Pete) Ford, Committee Chairman and Albuquerque Contractor. Edward Saiz, Committee Secretary and business agent of Cement Masons Local Union No. 254, observed that "practically all of these trainees have jobs as apprentices beginning right away." The school's next class to train 15 plasterers began on July 15th, and a second Cement Masons' class will start on August 19.

Plans were laid in Denver during July by the Colorado Laborers District Council and the Employers Training Program to train 192 men during the first year in Colorado. Trainees will receive 160 hours of training with equipment and facilities furnished by employers and the Construction Advancement Program of the ABC (Colorado's Building Branch-AGC). The acute shortage of skilled labor in the Construction Industry is the challenge presented to the General Contractor today. It is heartening to report the answers being formulated and acted upon by members of the Associated General Contractors in our Region. As Mr. Kuhn said in Hobbs, New Mexico, "Surely we can beef up our programs to meet the needs of tomorrow without turning to Government controls today!"



Seventeenth Conference/Western Mountain Region American Institute of Architects September 18-21/Salt Lake City, Utah

MINE HOST



Ralph A. Edwards, A.I.A.
President/Utah Chapter

I urge Western Mountain Region architects to attend the Regional Conference in Salt Lake City, Sept. 18 thru 21, where your Utah colleagues are awaiting the opportunity to be your hosts. We plan for you a meaningful conference with a desirable balance of business/social activities.

Preliminary responses indicate an unusually large attendance by architect's wives and an attractive program is arranged for them.

We invite you also to take advantage of pre-registration, about which information will come to you with Regional Conference Bulletin No. 3 in early August. Pre-registration will make you eligible for the informal Architect-at-Home parties Sept. 19 and will offer a book of tickets for all conference activities at an attractive saving. The deadline for pre-registration will be Sept. 1.

Seminar topics comprise those of current high interest to architects to be presented by illustrious and competent speakers.

We think you will find attendance stimulating and rewarding.

AWARDS BANQUET SPEAKER



Robert L. Durham, FAIA
Seattle, Washington

The Site Plan is nearing completion for the 17th Annual Conference of the Western Mountain Region. The Architectural Team headed by Conference Chairman Frederick Montmorency is now ready to present to the many clients planning to spend September 18 through 21 in Salt Lake City—not just one site plan but two! A-One is, of course, the sumptuous and stately Hotel Utah located in the heart of the City itself. Originally built in 1911, this historic hostelry has been given a recent (1966) facelifting. The redecoration of the hotel which retains all of the opulence of that "elegant era" was under the TLC of Edward Fernley, A.I.D. His fine work is particularly notable in the lobby where much of the original furniture has been retained and refurbished and the "piece de resistance" is a magnificent crystal chandelier which weighs almost half a ton.

Second site is Park City—the fun town—little more than half an hour from the Convention Headquarters. Park City's first blooming began in 1869, and rode the crest of the great Western Silver Boom through the gayest of the "Gay Nineties." Nowadays it's that "white stuff" on the ski runs that brings 'em to Park City, but it is equally charming when the snow is absent from the slopes. This authentic old town is beguiling as ever with shopping, socializing and melodrama in a rollicking atmosphere. A "must" is the longest gondola lift in North America to the 9,200 foot summit at Pioneer Ridge. With a little bit of everything to offer, Park City is an unforgettable "happening."



Site Plan Delineated: The sumptuous lobby of the Hotel Utah provides a clue to the luxury of this historic hostelry.

There is no time like the present for giving credit where credit is due. We'll tip the Symposia hat right now to the men and their ladies who are so hard at work preparing the plans and specs for "The Architect in Action." First of all, Frederick Montmorency, who is the Host Chapter's General Chairman. He is assisted by William A. Richardson and Nelson W. Aldrich. (Mr. A., by-the-by, is the Utah Chapter's Executive Secretary and an Honorary Associate of the Institute.) The Finance Committee Chairman (and we need them), is James W. Christopher; his co-chairman is Kenneth W. Jones. The Program Chairman is William Richardson, AIA, assisted by R. Lloyd Snedaker, FAIA. The Housing Committee is chaired by Boyd A. Blackner, his co-chairman is Robert L. Springmeyer; the Facilities Committee is headed by Glen A. Lloyd, his co-worker is George Cannon Young. Keith Richardson, assisted by co-chairman Jon L. Taft, is in charge of Transportation, and the Registration Committee is headed by Martin Brixen, assisted by Elden Talbot. L. Spencer Smith is Chairman of the Awards Committee with Graphics and Publicity in the capable hands of David Hayes and Nelson Aldrich. (Mr. Hayes, editor of Utah Architect, is to be cited for the convention logo.) Jack Lowder is the P.C. arm on the Producers' Council Committee, with Arthur K. Olsen representing the AIA. Arthur E. Pasker chairs the Student Activities Committee. Last, but far from leastest—the Ladies! The Women's Events are in the charge of Mrs. R. Lloyd Snedaker, with Mrs. Ralph Edwards as her co-chairman. All committees have from four to eight Utah Chapter AIA members in the lists so it is obvious to all and sundry that every member is making a significant contribution to the success of the 17th Annual. Great teamwork which promises a great Conference!

THE ARCHITECTURAL TEAM

August 20—this is the date when Official Entry Blanks and Fees for the 1968 Honor Awards Program of the Western Mountain Region/American Institute of Architects must be received by the Utah Chapter, 1016 Walker Bank Building, Salt Lake City. All AIA architects in the Region have received full information on this year's Awards Program. Remember, you do have until 5:00 p.m. on September 9 to have your completed entries in to the Utah Chapter. Chairman of the Award Jury for this 1968 competition will be William Geddis, AIA, of TAC Associates, Cambridge, Massachusetts.

September 1—The date **your** pre-registration should be in the hands of the Utah Chapter. If you have not received this pre-registration information—it will be in your mailbox very shortly. The advantages of pre-registration are so many, and you'll be so glad you did! So—do!

THE DATES TO REMEMBER

The much touted and mysterious pre-conference event scheduled for the night of September 18th is now called "Eve of Mystique"—site: undisclosed! Nobody is going to want to miss meeting Alice at the Rabbit Hole for this long awaited social "tour de force." See you there!

CURIOUSER AND CURIOUSER

—a vignette

Walking Through Connemara

Part II

by: John W. ("Himself") McHugh, AIA

After I had been tramping around Clifden and vicinity all day, a day of those intermittent but persistent drizzles which wet you to the skin before you know it, I had just got back to the pub and was beginning to settle down to some serious drinking when the slanting rays of the evening sun lighted up the windows. I said aloud to no one in particular, "I should be on Sky Road this living minute, making a picture of the sunset over the isles." A distinguished looking grey haired man said, "I have a car, I'll drive you there." Well, the Sky Road has that name because it is IN the sky. Narrow, curving, and hilly, it would be safe at high noon on a clear day at about twenty miles an hour. With the western sun straight in our eyes, we went flying down this roller coaster at forty-five miles an hour. My driver turned to me and said, "I had a heart attack last month, but don't be alarmed." "No," I said, "the next one will probably be fatal, for both of us." He asked me to have a bit of supper with him in his home later on, and when I accepted he said, "I can tell you what we'll be having: cheese, abuse, and rhubarb pie, in that order." And, do you know, he was right! Returning to the pub at about eleven, I plunked my coins on the bar and received a stein from the waitress. Just as I was about lifting it she said "Time, jintlmen."

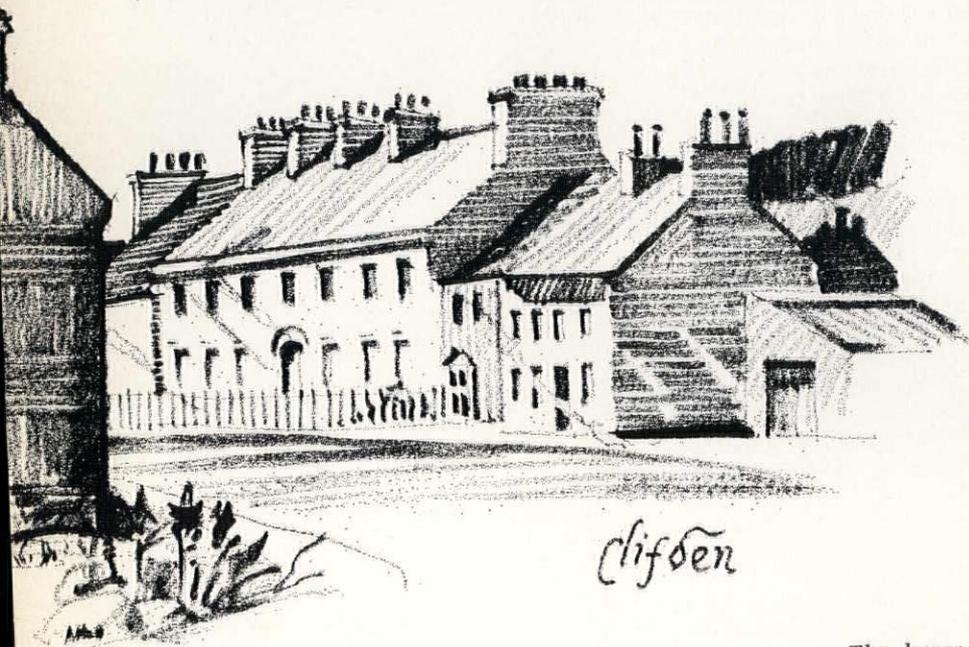
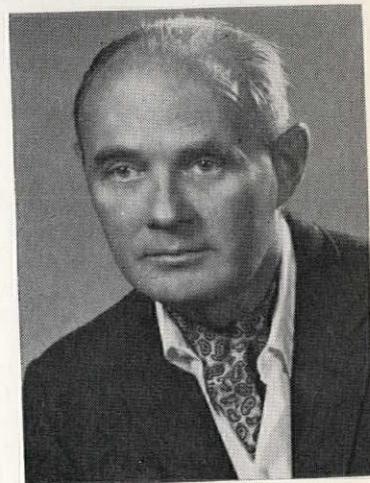
"Oh, come off it, Kate," I said, "I've got to finish my pint."

Hands on her hips she declared, "When I say time, I MEAN time. Now out with the lot o' you."

"But Katie," I said, "it's raining stair rods out there; you'll be sending us all to watery graves."

With extravagant patience she explained, "In the twinty years since I left Galway City, I've learned to deal with

(This is the conclusion of the article which Symposia began in the July issue—a delightful vacation provided us by the gifted Santa Fe architect, Mr. John W. McHugh. With sketch pad in hand, he has taken us to a magic green land where "when the 20th century attacked West Galway it was shattered on the rocks of Connemara, surely, and only little bits seeped through.")



The house where I was served — "Cheese, abuse, and rhubarb pie."



Clifden from
Sky Road

Clifden, from the Sky Road, just before I returned to the pub for my altercation with Katie.

the savages that live in these parts, and (with a malevolent glower at me) and with thim that has no better sense than to come here on their own two feet."

"Ah Kate," I replied, "it's yourself's been a noble jewel shining regally in the crown of Connemara—these forty years and more. Surely you won't dim its lustre now by casting us into exterior darkness?"

Proving my theory that even a back handed flattery will get you somewhere, she relented. "All right, ye can shtay, but divil a drop more will you get. You've been half in and half out of here all evening, and the truth's not been in you this hour and more!" But we were still buying drinks at two a.m.

Anyone who's been to Ireland will be asked about the Little People. I will admit straight out that I never saw a leprechaun, though I searched at hours of the night and day. It's not given to every man to see them. But I met many who had not only seen them, but who were willing to tell me about it. The thing is that stories of the Wee Folk are not for print; they must be told beside a flickering hearth fire, or on a grassy spot in that easy time between sunset and dark when the hills themselves seem to be listening.

One of the annoying qualities about a certain class of Irish is their refusal to make a direct statement or to be pinned down at all. Back in Oughterard for the fishing, I had made elaborate arrangements the previous night for Mr. Timothy Sweeney, a ghilly, to meet me at the dock at ten o'clock in the morning to begin a day's sport. I was there a few minutes early with proper enthusiasm, and with lunch and whiskey for the two of us. When he hadn't shown up by half past ten I asked a man standing there, "Didn't Sweeney say he'd meet me here at ten?" "Well, sirrr, in a way o' speakin', he did, 'n' he didn't." I could easily have hit the man. A few minutes later Sweeney in fact did arrive, and we rowed out onto the lake. It is difficult for someone who hasn't tried it to understand how one can enjoy sitting in an open boat in a fine drizzle for hours at a time. The surface of the lake was a series of little wavelets, black on one side and silver on the other. We

were dapping, and there was nothing to do but keep our eyes on that fly the whole time; no chance to think about one's family or the IRS or the international situation or how very wet one was getting. When the trout strikes and you've finally landed him, you have a feeling of pride in accomplishment such as Solomon must have felt when he finished the Temple! When you decide to have lunch, the ghilly will row you to a low island and serve up stout tea brewed on a primus stove and well laced with whiskey. It was pleasant that evening to walk into the hotel bar, just as wet as anyone else and fully able to join in the formerly incomprehensible fishin' talk. Because I had no clothes to change into, and because changing for dinner was de rigeur, one of my companions lent me a dark blue suit complete with white shirt and tie. I was by this time definitely "In."

If you were to draw an imaginary line from Galway to Clifden, you would find that things north of this line are more green and have a certain gentleness, while those to the south are more wild and rugged, stonier, more scoured by the Atlantic winds. It would not be correct to say that this is an awful landscape; rather it is a landscape full of awe, and wonder. It is a hard and stern place where the life of man seems fleeting and puny, pitted against the primitive forces in all these great spaces. It must have been in such a place that the Christians developed the idea of the Communion of Saints, or the Buddhists the notion that one should live out one's days as a part of the continuous stream of human life. It is a terrifying landscape, yet full of beauty like none other. All of the cottage doors are on the latch of welcome. One meets everywhere the pervasive courtesy of the poor, for only mean or low-born people are ungracious to guests. In any cottage you'll be given tea, laced with whiskey or Poteen. You will see Holy pictures, whitewashed walls, "tarf" fires which have probably not gone out for centuries, and hens walking in and out through the open door. You will find that these so-called illiterate people have a knowledge of the history, traditions, and literature of the country; and many of them can speak two languages with a



Clifden from below the town.

As I am writing this in my sunny study in Santa Fe, I feel a long way from the land of lost time, which is Connemara. Reading back over what I've written, I'm afraid that I've failed to convey the very real eeriness of the country. I spent a lot of time wandering aimlessly—and what is time for but to spend—and have described the land and the people as best I can. Don't ask if it's the truth, because you know you should never believe an Irishman, nor the son of any Irishman. If it is not legally factual, it is very real; if it is not truth, it is life. Sometimes when I'm hearing a great piece of music, it builds in beauty until I almost can't stand it, and when it finishes I want to be alone and not speak to anyone. I felt this same way watching the sunset over the Atlantic from Sky Road above Clifden; and again on a restless night at Carraroe while walking up a twisted bohieren under the light of a riding moon. I stopped to fill my pipe and to watch the colour drain from the many-levelled pools and inlets, as it changed from green to lilac to silver and myself with tears in my eyes at the beauty of it all.

Cuatro Vientos, Santa Fe; May, 1968

flair. The speech is pungent, poetic, and sometimes sublime. There is humor, too.

One evening I was at a meeting of the Little Theatre group in Clifden. Under discussion was the annual party to be held a few nights later. The question was where to have it, and many suggestions were put forth, but none seemed entirely satisfactory. There was quite a bit of general conversation until I spoke up: "What about Roundstone?" I asked. All talk stopped. Then the Chairman said, "Roundstone is a lovely place and all, but there is one thing about it . . ." There was a sage nodding of heads around the room. Not to be put off entirely, I asked, "And what is that one thing?" "The Police," replied the Chairman, more nodding of heads, "You see, they're a bit sticky about closing time in Roundstone." Swinging at an easy gait down the roads, bog roads, and bohireens became natural and effortless for me after a few days. I became accustomed to the chancy weather, to feeling the sun, the rain or the wind in my face. But a spate of walking in the windy hills had spoiled me so that I got a feeling of claustrophobia in the warm and still valleys. Even though I could hardly wait to get out of the place, I did enjoy a delicious luncheon at Ballynahinch Castle overlooking its placid lake. One memorable dish was a large bowl of boiled potatoes with a rich cream sauce into which had been crumbled at least a pound of crisp bacon. Calories meant nothing to a walker.

About noon one day I walked to the general store at Recess—in fact it's the only thing there is in Recess—in search more of a cup of coffee and companionship than of something to buy. Naturally, I struck up a conversation with the waitress. In reply to the usual question of who I was and what I was doing there I told her (by this time I was speaking broad Irish) that I was an architect from a hamlet called Santa Fe in western America. "G'lang wi' you. I'll not be believin' a fabrication like that." "All right," I said, "you win. The trooth is, I'm a North of Ireland Roman Catholic priest in mufti having a holiday in the Republic." This she believed, and we got along just fine until I asked, "Shall I be hearin' your confession, my daughter?"

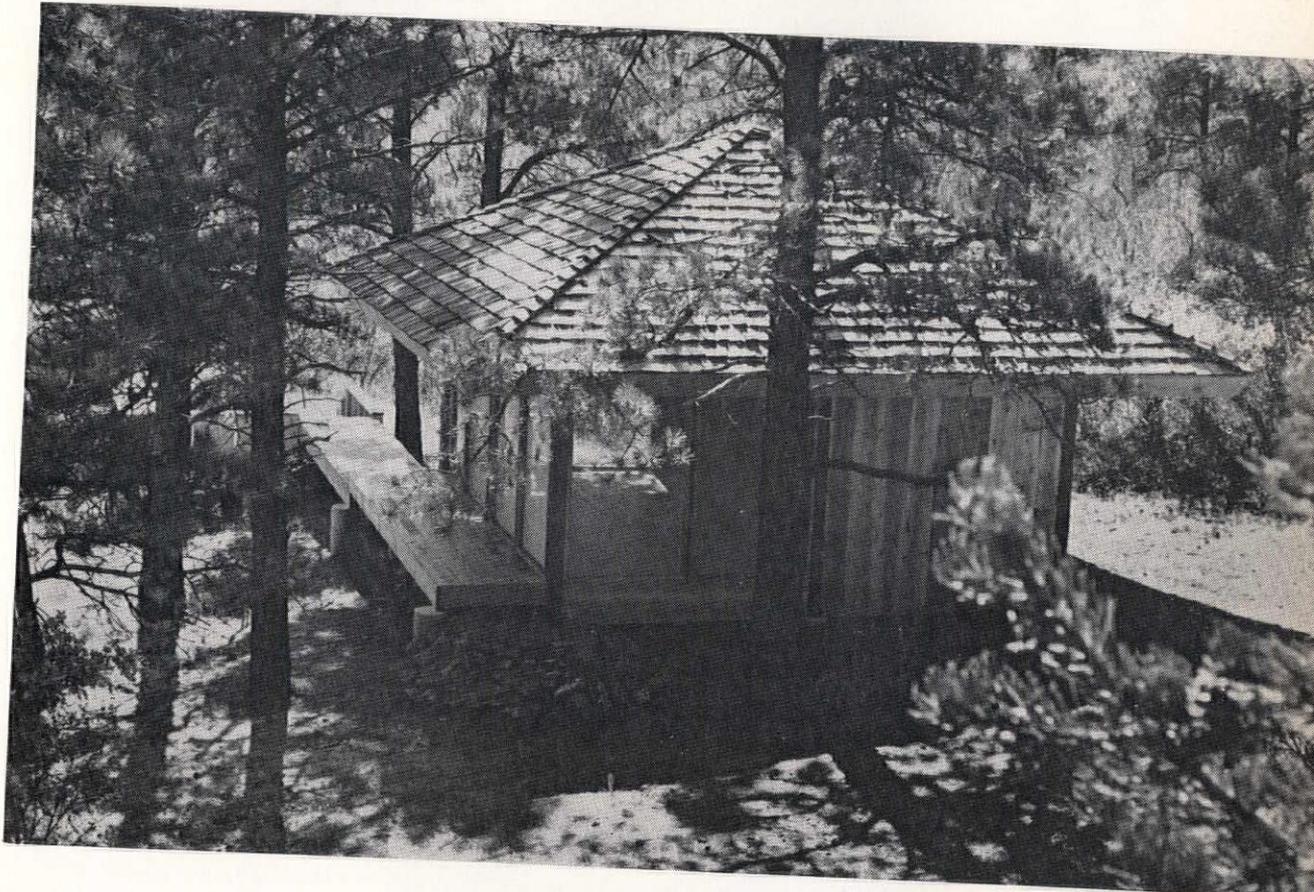


*Of this sketch, John writes—
"It really does look like this."*

PREVIEW:

a symposia design series featuring projects
from the southeastern section/colorado chapter
american institute of architects

PICNIC SHELTER — COLORADO SPRINGS, COLORADO
architects: Collins and Roberts, Colorado Springs



photograph: Myron Wood

consultant: Howard C. Dutzi, Structural Engineer
contractor: Ray Wood

THE CRITERIA:

A picnic shelter large enough for a family of six for year round use. The shelter will not be attended during some of the winter months and therefore required maintenance free materials. No water or power was available on the site, and the owner requested that no permanent road be built.

THE ARCHITECTURAL RESPONSE:

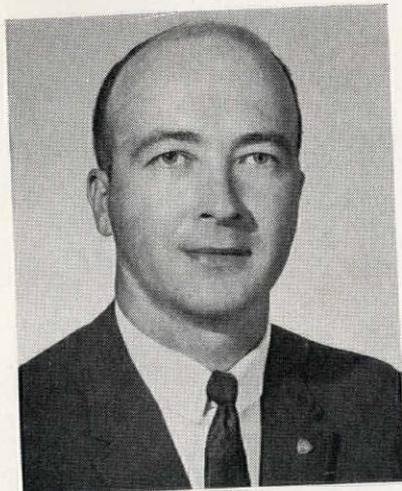
The site is located some fifteen miles south of Colorado Springs, and the building location was selected in a relatively flat area closely framed by several large ponderosas. The location takes advantage of an impressive view to the northwest and a backyard of red rock climbing approximately 300 feet vertically. The materials selected were: exposed cedar diagonal beams forming the hip roof.

PROJECT DATA:

The walls are screen with the exception of short sections of cedar and plywood partitions for racking purposes. The floor is of spruce T&G boards and the fireplace with a hearth is built of fieldstone. All materials are natural finish. The six hundred square foot picnic house was built at a cost of \$5,000.00.

Introducing: architecture/construction leaders

ARIZONA



Melvin G. Chase, CSI
Phoenix Chapter

Construction Specifications Institute

During that frenetic half hour which seems to follow the conclusion of any and all awards banquets, we were privileged to meet Melvin Chase at the CSI/12. Unfortunately, it was all too brief, but now in receipt of this gentleman's "life and times" we are now happy to present him to the Region with "all those facts, ma'am." A native of Lincoln, Nebraska, he attended the School of Architecture at Nebraska University, and in 1953, he started his service stint, serving as an intelligence photographer with the CIC in Baltimore, Maryland.

Mel worked with his father's construction firm in Lincoln following his discharge, until 1959 when he moved to Phoenix. Since that time he has worked primarily as field supervisor and specifications writer with several of the major architectural firms there. He is presently the chief specifications writer for the A/E firm of Henningson, Durham and Richardson in Phoenix.

A CSI stalwart since 1964, Mr. C. has held the offices of Secretary, 1965-'66, Vice President in 1967-'68, and heads the Clan in 1968-'69. He's chaired numberless committees initiating technical studies for the Institute's Technical Program . . . reviewing and commenting on most of the interim studies assigned to the chapter for review. He is now a member of a local committee of professional and construction industry representatives studying the problems of mechanical specs.

The Chase family . . . wife, Lucille and children, Michael, Teresa and Elisa, participate in all moppet-type activities including Brownies, Cub Scouts and the Little League, and are enthusiastic campers and fishermen. Mr. Chase maintains an active interest in photography and participates in the Architects Bowling League. Already a four-time winner in the Chapter Technical Program category of the Institute, Phoenix CSI seems well qualified for further laurels under the guidance of fine new president, Mel Chase.

ARIZONA



Warren G. Edminster, AIA/CSI
Tucson Chapter

Construction Specifications Institute

1968-'69 Leader of the CSI pack in Tucson is that very nice guy, Warren Edminster. A transplanted native of Illinois, he is a Project Architect with the firm of Friedman and Jobusch, Architects & Engineers, Inc. Before his election as President, he served CSI in Tucson as Editor of that "most improved newsletter," "Tucson Topics," in 1965-'66, and as Secretary in 1966-'67.

Mr. E. attended the Knox College of Liberal Arts in Galesburg, Illinois, and the University of Maryland before spending three years in Germany with the United States Air Force. He is a graduate of the University of Illinois, and became a Fallout Shelter Analyst (Office of Civil Defense) through further schooling at the University of Arizona.

His Arizona citizenship dates from 1960 when he went to work for the architectural-engineering firm of Scholer and Fuller. In 1962, he joined Friedman and Jobusch as Job Captain and Designer and has been there ever since.

He is most active in civic and community life . . . serving as Vice Chairman for the Tucson Housing Advisory and Appeals Board, as V. P. of the University of Illinois Alumni, plus Cub Scouts, PTA, Young Republicans, and a member of the Vestry at St. Phillip in the Hills Episcopal Church. He and his wife, Inge, are the parents of two sons and a daughter.

Unbelievably, this Arizona desert dweller owns a sailboat, he hunts quail, goes fishing and does both painting and sculpture in several media.

A most talented and capable member of the Industry, Mr. Edminster is certain to make an outstanding president for the CSI Chapter in Tucson.

TAKE ME TO YOUR LEADER

IDAHO



William W. Briggs
Consulting Engineers Council/Idaho

It is our pleasure to welcome to our phalanx of leaders, Mr. William W. Briggs . . . President of the spanking brand-new Idaho Chapter of the Consulting Engineers Council. Active for many years in other professional groups, Mr. Briggs spearheaded the movement toward affiliation with the National CEC, and is well deserving of any plaudits, laurels etc. coming his way!

An Idaho native, Mr. Briggs attended Boise Junior College (now Boise State College), graduating from the University of Idaho with his BS degree in 1950. He was a professional land surveyor with Raymond J. Briggs and Associates for two years. He entered private practice as a Consulting Engineer in 1954 upon being licensed as a professional engineer. At present, he is a senior partner in the firm of Johnson, Underkofler and Briggs, Consulting Engineers with offices in Boise and Nampa, Idaho. His firm covers all civil engineering work, plus recently they have entered land planning areas including comprehensive planning, land use studies, and capital improvement programs.

As with leaders in the architectural/engineering/construction community throughout the region, Mr. Briggs is very active in many professional and community organizations. He was Chairman of Boise's City Fire Code Commission, has worked on the Metro Planning committee; Legislative and Industrial Research Committees of the Boise Chamber of Commerce.

He is a member of the National Society of Professional Engineers, the American Society of Civil Engineers, the Urban Land Institute, and has served as Secretary-Treasurer, Vice President and President of the Consulting Engineers of Idaho.

On the personal side of the ledger, Mr. B. is married, and the proud papa of four—Bonnie, 16; Dean, 14; Pamela, 13 and 3 year old Anne.

"Idaho," newest ship in the CEC fleet, has been launched—our best Symposia Bon Voyage greetings go with Captain Briggs, and his crew.

COLORADO



Oluf N. Nielsen, AIA/CSI
Denver Chapter
Construction Specifications Institute

Almost immediately after shaking hands with this delightful gentleman, he becomes "Ole." An architect of considerable talent, a man sincerely concerned with the many problems besetting the Industry, he has a sense of humor which pops the balloons of pomposity, and unstarches the "stuffed shirt."

Born in Iowa (dare we say "that's where the tall corn grows"?), his educational background includes Stevens Institute of Technology, Princeton University, Iowa State, and his Bachelor's in Architectural Engineering is from the University of Colorado. Since September of 1966, he has been associated with architects John McGuire, Marshal Boker and Claude Nash, climaxing some years with other architectural firms, and as a principal since 1959. Ole's architectural registrations include Illinois, Iowa, Colorado, Wyoming and NCARB. His current projects include a large restaurant, a condominium, a church addition and a branch library. He writes, "Plan to specialize in a building type, eventually, since more efficiency of time and effort is being required each passing day."

In addition to his CSI presidency, he is serving as co-chairman (with William Becker, engineer and president of Technical Services Co.), of the joint AIA/CEC committee dedicated to the promotion of local architectural/engineering services.

His wife, Barbara, also a graduate architectural engineer from C.U., and a gifted painting and graphic artist, teaches water color at Denver's Opportunity School on a part-time basis.

The Nielsen family includes five children from 7 to 17 (all boys except one), six bicycles, two boats, one dog and a "crowded house." Writes Ole, "We hope to change that soon by building a house on a lot by a small lake with a view . . . I'll finish the plans as soon as . . ." We'll wager Barbara's comment on this statement made often during the past three years is . . . "Promises! Promises! Always promises!"

Having had a glimpse at President Nielsen's plans for the 1968-'69 season—we would predict Denver's CSI Chapter will grow and flourish, accomplishing many CSI goals during the year ahead!

Taking over the reins as President of Salt Lake City Chapter of the CSI, is Mr. Cecil E. Holland, principal in the architectural-engineering firm of Holland, McGill and Pasker. He received his Bachelor's degree in Architectural Engineering from Kansas State University in 1947, his Masters in Architecture from the University of Michigan in 1951. He served in the U. S. Army Artillery in the ETO during World War II.

Following graduation, Mr. H. worked for several architectural firms in Detroit before "coming West, young man" in 1959. After his arrival in Salt Lake City, he worked with a number of local firms, including Snedeker, Budd, Monroe and Scott and Louie. He established his own architectural firm in 1961, joined in 1963, by Arthur E. Pasker, AIA, and by Paul W. McGill, P.E., and his registrations include Utah, Idaho, Wyoming, Michigan and the NCARB. Before his election as President of CSI/Salt Lake City, he served the Chapter as Program Chairman in 1966-'67, and Technical Chairman in 1967-'68.

He is married to the former Rosemary White, and heads a real crew . . . Michael (16), Joseph (15), Kathleen (14), John (12), Mary Ann (11) and David (5). Plus, he notes in his autobiography, 1 (one) large, shaggy dog.

It is a very great pleasure to welcome Mr. Holland to the ranks of the "leaders"—and our best Symposia wishes for a successful year for him and for CSI's Salt Lake City Chapter!



Cecil E. Holland, AIA/CSI
Salt Lake City Chapter
Construction Specifications Institute

(NOTE: Members of the Construction Specifications Institute in our Symposia Region may, in reviewing this feature, query—"Wha' happen to Albuquerque?" Mr. Robert Schmidt, 1968-'69 president of that booming chapter, was introduced to the Region in the July issue in "Symposia Presents" as a new member of our Editorial Advisory Board.)



Engineers Set Fourth Institute

"Financial Know-How in International Engineering" is the theme selected for the Fourth Institute for International Engineering which has been scheduled this year of 1968 on September 23-25 at the Broadmoor Hotel in Colorado Springs, Colorado.

Colorado plays host to this top-flight group of American engineers every two years. The Institutes are sponsored by the University of Colorado in cooperation with the Consulting Engineers Council and the United States Department of Commerce. This year's General Chairman is John A. Duffy, foreign trade specialist of the Denver regional office of the Department of Commerce.

James Fowler of Washington, D.C., assistant administrator of AID, will deliver the keynote address at the initial session on Monday, September 23. Other speakers will include John Petty, assistant secretary for international affairs of the Treasury Department whose topic is, "How World Monetary and Liquidity Problems Shape U.S. Policy," and Simon Aldewereld of the Netherlands, vice president of the International Bank for Reconstruction and Development (World Bank).

Over a dozen topics are included in the agenda for the Fourth Institute including "The Economist and the Engi-

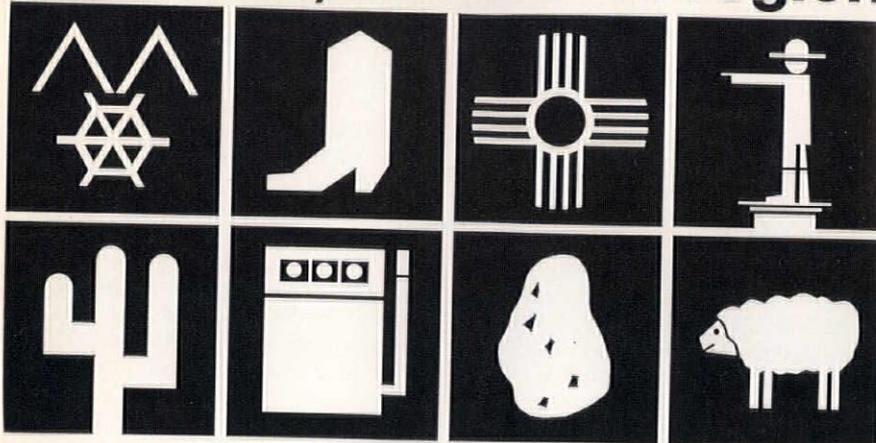
neer," "After AID—What?", "Money Mechanics," and "Financial Problems of the International Engineer."

In announcing the Institute's program, General Chairman John Duffy said, "Participants can gain much from speakers who are experienced in international finance and trade, as well as from the exchange of ideas with experienced colleagues to provide a solid basis from which to pursue international work."

Engineers also will be given the opportunity to participate in a forum for the exchange of ideas between the engineering and construction professions and the various governmental institutions financing or otherwise assisting American enterprise abroad.

The Fourth Institute for International Engineering is, as always, an outstanding event for members of the engineering profession from throughout the United States, and of particular significance to regional engineers because of its proximity to "home base." September 10 is the deadline for registrations which can be made through the Bureau of Continuation Education, 328 University Memorial Center, University of Colorado in Boulder, Colorado. The fee of \$100.00 includes all three luncheons, a chuckwagon dinner and the concluding banquet.

symposia/around the region



LAURELS

Three Arizona architects received awards during the National Convention of the American Institute of Architects held in Portland, Oregon. Selected by juries in mid-May in Washington, D. C., the trio was cited for awards in the Homes for Better Living residential design program. Laurels are hereby accorded to Bennie M. Gonzales for a patio-house design by Inland Constructors at Litchfield Park in Phoenix; Calvin C. Straub and Denis P. Kutch for two custom homes . . . one located in Phoenix and the other in Scottsdale. Sincere Symposia congrats to one and all!

arizona

"Walk with the animals!"

Arizona's own Dr. Doolittle, Mr. Lloyd Perper of the Arizona-Sonora Desert Museum in Tucson was the host at a recent meeting of the Governor's Commission on Arizona Beauty. Following the tour of the Museum (and it is delightful!), Commission members met for business in the Old Pueblo Club atop the Tucson Federal Savings Tower. Hal Gras, ably assisted by his buddy, the ring-tailed cat, spoke on "The Desert Ark." The Commission's next scheduled meeting is in Flagstaff on Friday, August 2nd beginning at 8:00 a.m. with breakfast at the Afton House Restaurant. (And our thanks to the Governor's Commission for adding Symposia to their mailing of the most interesting Newsletter!)

Standing Committees Appointed

Tucson's Chapter of the Construction Specifications Institute has announced the appointment of Committee Chairmen for the 1968-'69 season. These hard working gentlemen are: Technical Committee: James Schibly, Chairman; Membership: William Goldblatt; Publications and Advertising: Richard Gerhart, Editor; History and Chapter Roster: George McFerron; Program: Earl Chann; Awards: Warren D. Moon; Meeting Reservations and Collection: Clayton Kiewel; Code Changes: Robert Maassen; Regional Conference: Bernie Kinsock; Education and Public Relations: Ellery Green, and here's a new one—most indicative of the way our Industry is moving—Specs by Computer: Carl L. John, Chairman. August will soon be gone, and it will be time to roll up the sleeves and get to work—happy "shoulder to the wheel," fellows!

Industrial Park Planned

Another step forward has been taken toward the Industrial Park on the Navajo Reservation at Shiprock — a \$558,467 loan from the Economic De-



AWARD PRESENTATION: (Left to Right) Edward Mangotich, Arizona District Engineer for the Portland Cement Association receives the Award made by the Phoenix Chapter of the Construction Specifications Institute. Mary Machanian, Receptionist-Stenographer for PCA holds the plaque, and Mel Chase (Henningson, Durham and Richardson Engineers) President of Phoenix/CSI makes the presentation.

velopment Administration will enable the Fairchild Semi-Conductor Division to boost its workforce to one thousand Indian employees with an annual payroll of \$3.7 million. Previously an EDA grant was made to provide sewage treatment assistance which will serve not only the Fairchild facilities but the plants of the Vanadium Corporation of America, some 35 business establishments, several schools, housing and a Public Health Service Hospital. This couldn't happen at a better time! This year, of 1968, the Navajo nation celebrates the Centennial of Long Walk from Fort Sumner back to their Tribal homelands.

CSI/Phoenix Presents Award

The Phoenix Chapter's "Outstanding Organization Annual Award for 1967-'68" has been presented to the Arizona

District of the Portland Cement Association. The award was made to the PCA Arizona District for "their exceptional contributions in furthering the purposes of the Construction Specifications Chapter in promoting improved specifications practices." The award was based on a new publication, **Arizona Recommended Specifications for Normal Weight Ready Mixed Structural Concrete** which was prepared by the Association staff in cooperation with the Technical Committee of the Arizona Aggregate Association. This "spec" provides architects, engineers, designers, specifiers and builders with a working tool for structural concrete used in Arizona—copies may be obtained by writing P.O. Box 3972 in Phoenix.

colorado



LAURELS TO CCA

The Colorado Contractors Association, Inc. (Highway and Heavy Utility branch of the AGC) has been accorded the 1968 Association Safety Award by the National Safety Council. Initiated in 1952, only 100 national, regional, state and local associations have qualified for this special award during the past 16 years. Judges were: Mr. D. Dix (U. S. Chamber of Commerce), Mr. Richard L. Eldredge, (American Society of Association Executives), Mr. Richard F. Twitmire (National Industrial Council) and Mr. David Zabriskie (American Insurance Association). In announcing the award, judges recognized CCA for its outstanding efforts in providing safety services to its members and for their efforts to reduce injuries and the unnecessary loss of life. Presentation in behalf of the national group was made by Arthur G. Rippey, President of the Colorado Safety Association. President, James W. Lawrence accepted for the Contractors. Our hearty Symposia congratulations to all sixty-five members of the Colorado Contractors Association, and to Mr. Jay Lower, Assistant Managing Director of CCA who prepared the Award Winning Presentation—a real feather in the cap for a fine Colorado organization!



AIA Task Force

The Southeastern Section of the Colorado Chapter of the American Institute of Architects reports that a Task Force of John Ten Eyck, Cliff Nakata, Dietz Lusk and Lamar Kelsey, FAIA, have prepared and presented a report on fee schedules to the Board of Education of School District No. 11. Armed with the Case Report (Economics of Architectural Practice), the team spent some two hours with the Board — hopefully bringing about a better understanding of architectural economics which will benefit all and sundry selected for future work.

Add: Southeastern Section

The July 10th meeting of the Section was held at the Stockyards Steak House in Colorado Springs—featuring Mr. Howard Dutzi. Howard presented an interesting slide show of his South American trip including some fine shots of Brasilia. The section is hard at work on plans for implementing their move up to Chapter status which is scheduled for January 1, 1969.

NCEE Meeting Set

Denver will play host on August 26-30 to the National Council of Engineer-

ing Examiners. This Council representing all 54 Boards of Engineering Examiners in the U.S. is concerned with many policy decisions affecting hundreds of thousands of America's professional engineers, including the possibilities of uniform laws and procedure. David E. Fleming who is General Chairman of the planning committee for the 47th Annual has announced that more than 300 are expected for the five-day meeting. Headquarters hotel is the Brown Palace but social events are also scheduled at the officers' club at the Air Force Academy and a chuck wagon dinner at the Flying W Ranch located near Colorado Springs. The Engineer's ladies are scheduled for tours of the historic Central City area. A most significant meeting for all professional engineers in the Symposia region — deserving a warm western welcome in the Mile High!

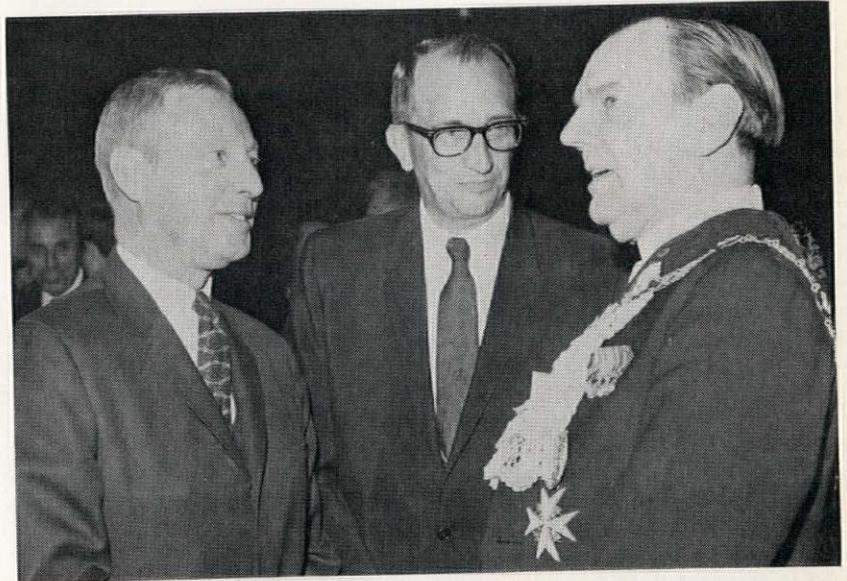
CSI/Denver Committee Chairmen

The Denver Chapter of the Construction Specifications Institute has tapped (rapped?) Committee Chairmen for the year ahead. They will soon be hard at work bringing to flower the agenda laid down by Prexy "Ole" Nielsen. O. James Barr (Jim)

Barr will continue as the Editor of prize-winning SCOPE—the Education Committee will be headed by Allan James Lock; John Schaffer will continue work on that Elevator Technical Study; John M. Elmore will head up the Membership Committee and the Procedure Manual will continue under the TLC of "Big Jim" Noone. Charles Zecher will chair the Program Committee; Technical Committee Chairman is David R. Towne; Publicity will be handled by Ernest F. Dillon and the Regional Convention and Formation of the Colorado Springs Chapter is in the capable hands of Larry (Did Elizabeth let you out again?) Bourn and Tony (5,000 reprint) Murray. Heave ho, CSI stalwarts, let's get the good ship Denver under way! (Or do Sailors say "weigh"?)

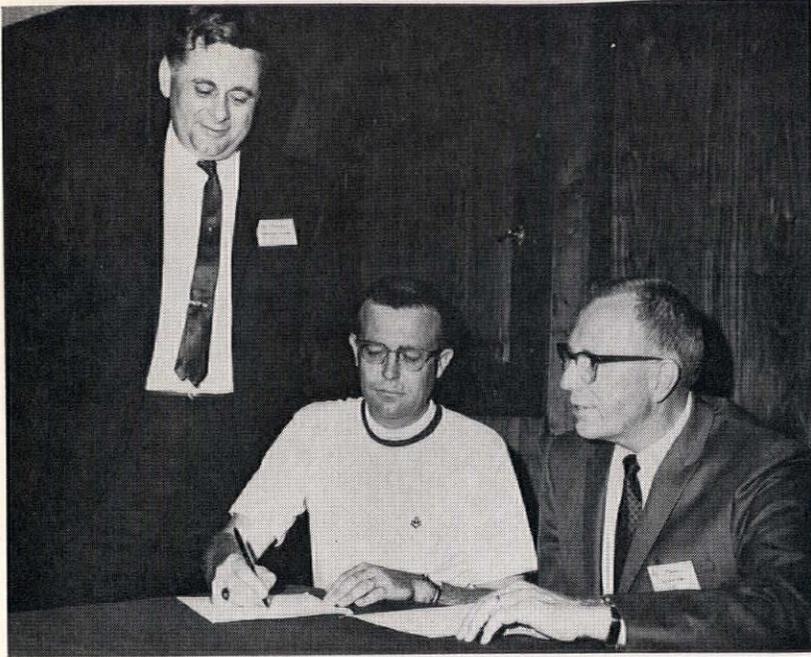
New Boulder Firm Established

Based on the concept of "total services" to the client, John A. Thacker, AIA, has just opened a new office for the general practice of Architecture, Planning and Construction Management located at 2977 Peak Avenue in Boulder. Mr. T. a 1960 Architectural graduate of the University of Colorado, was formerly associated with James M. Hunter, FAIA, of Boulder.



Left to right: E. Vernon Konkel (Colorado Consulting Engineer and Symposia Editorial Board Member), Burr Bennett (Portland Cement Association/Chicago) and the Lord Mayor of London meet at a reception held at the Old Guildhall in London. Verne and Mr. Bennett were two U. S. speakers (there were two from each of 10 countries) at the International Conference on Lightweight Concrete held at the Royal Lancaster Hotel in London where over 600 attended the meetings. Verne's topic was "General Application and Economics of Lightweight Concrete in the United States." Following the London Conference, globetrotting Konkel attended the International Conference on Pre-Stress in Madrid, Spain, and went to the Netherlands at the invitation of HBM, largest Dutch contractor, to see their "jackblock" construction system. When asked if the Lord Mayor had a name, Verne quipped . . . "I wondered about that . . . but the Lord Mayor of London ain't Tom Currigan . . . man, he's the Lord Mayor!"

idaho
CEC/Idaho Meeting



William Briggs, Boise, Idaho, (center) signs the formal application for membership bringing the Idaho organization into the Consulting Engineers Council. Don Buzzell (left), CEC's Executive Director, and Art Maxwell (right) spoke at the annual CEI Convention at Sun Valley.

Bob Hoffman of L. E. Johnson and Associates, Inc., has been kind enough to forward to Symposia all the pertinent facts in re: the Consulting Engineers of Idaho's most interesting meeting held at Sun Valley the early part of June. William Briggs presided over the business sessions which were climaxed by the unanimous approval of the Chapter's affiliation with the Consulting Engineers Council/USA. Don Ellsworth was named as national CEC Director. President Briggs also informed the membership that the CEC/AIA Liaison committee has been reactivated to work on common problems, fee discrepancies and so forth. There is a sincere desire on the part of both organizations to work together for a common purpose. In addition to the many members of the Idaho engineers present at this meeting — guests included Don Buzzell, Executive Director/CEC, Art Maxwell, President Elect of CEC/US, A. T. Kersich of Billings, Montana, Fred Steel, Tom Thomas, Lee Walker, Dick Kanamueu of Great Falls and Jack Lyerla, and Larry Peden of Spokane, Washington. A brief biog and pix of Mr. Briggs is to be found in this month's "Take Me To Your Leader"—and it is with great pleasure that Symposia welcomes CEC/Idaho into the fold.

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new mexico

September Meeting Set

The Board of Directors of the New Mexico Society of the American Institute of Architects has scheduled its autumn meeting for the afternoon of September 13 in Cloudfcroft, New Mexico. "Mid the Sheltering pines" in this southern New Mexico mountain retreat they will formulate procedures to be presented to the State Purchasing Agent for the selection of Architects for State Work. Following the Board meeting, the Southern Chapter will meet in solemn session . . . (?) . . . a group headed by the most charming AIA Architect, Loren Mastin of Masilla. Joe Boehning also reports the Albuquerque Chapter meetings will be held at the UNM Department of Architecture at 7:30 p.m. on the THIRD Tuesday of each month, and that John Varsa and Van Dorn Hooker are scheduled for a guest appearance with the report of the AIA National Convention complete with slides!

AIA/AGC Committee Has New Look

It is tremendously gratifying to those of us here at Symposia to note the continuing emphasis placed upon co-operation between all segments of the architecture /engineering/construction community in our Region. Case in point: The statement of Mr. Alva J. Coats, manager of the New Mexico Building Branch of the AGC about the "new look" of the AIA/AGC Liaison Committee. After some 11 years of cooperative effort, CEC/ New Mexico now joins this group which readresses itself, enthusiastically, to building industry problems. Also serving on this committee are representatives of the New Mexico Chapters of the Mechanical Contractors Association and the National Electrical Contractors Association. Said Mr. Coats in making the announcement: "The Construction industry is so segmented that a catalyst is required to obtain cooperative efforts"! Viva!

New Look for Newsletter

While we are on the topic of a "new look," we must comment upon the handsome new front page of "New Mexico Spex," the publication of the Albuquerque Chapter of the Construction Specifications Institute. It is extraordinarily handsome, and we note also that contributions from the members on various aspects of Specifications are now being included. Earl Prinz is the Spex Editor, and congratulations to both Ed and Staff for a constantly improving Chapter Newsletter. The "Active Five" a program developed by and for the Chapter is treated elsewhere in this month's Symposia.

Santa Fe Chapter President Resigns

Mr. Bradley P. Kidder, FAIA, who mans the good Ship Symposia at our Santa Fe dock, reports that the AIA Chapter has recently bid a fond farewell to its president . . . Mr. Dick S. Clark. Dick has left architecture and the AIA to work for the Boy Scouts of America in Cimarron, New Mexico. Mr. K. also brings us a vivid and delightful picture of the opening of the exciting new Santa Fe Opera (Designed by McHugh and Kidder, Architects, and soon to be viewed on the pages of Symposia). But — here is his report of this happy event — "In spite of a two hour downpour of rain from 5 to 7, the Opera opened **exactly** on schedule . . . with a tremendous standing ovation for John Crosby when he came to the podium to conduct. Many shouts of "congratulations"—and only stilled by the playing of our National Anthem. The handsomely attired audience literally froze in the chilly winds which followed the rain—but were so enthusiastic, and the performance was so well staged, lighted and beautifully sung that few, if any, left before the end—and most stayed on long afterwards for the dancing to Strauss waltzes played by the Opera orchestra on the East Balcony." And doesn't that enchanting picture make you all wish, as it does us, that you could have been in Santa Fe on that second evening of July!

utah



*Joseph Pass, President
Intermountain Chapter
Producers' Council*

New Officers for PC

The Salt Lake City based Intermountain Chapter of the Producers' Council has a new Captain and Crew at the helm for 1968-'69. Mr. Joseph G. Pass of the Interstate Brick Company has been elected President and he will be assisted by William C. Howe (Building Specialties Corporation) as First Vice President; Leon C. Searle (Utah Power and Light Company) Second Vice President; Harold V. Hymas (Bennett's) as Secretary and by Gerald S. Howells (Howells, Inc.) as Treasurer. The Intermountain Chapter is presently working in close accord with the Utah Chapter of the American Institute of Architects in completing plans for the much anticipated 17th Annual Western Mountain Regional Conference scheduled for September 18-21 in Salt Lake City.

Ladies Night at CSI

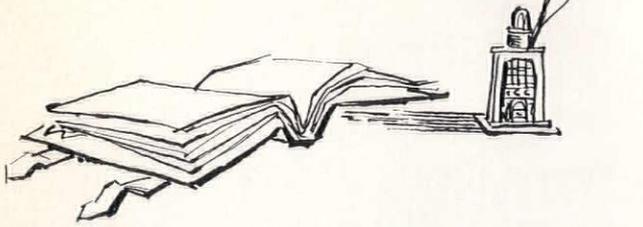
On June 18, the distaff side of the Salt Lake City Chapter of the Construction Specifications Institute was very much in evidence at the meeting held at the World Motel. The speaker for the evening was Mr. Dave Rose who is the Chairman of the Utah State Tourist and Publicity Council. Their generosity only exceeded by their good looks — the SL Chapter picked up the cocktail tab for that "happy hour" which preceded the Steak Dinner.

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Memo...



The meetings that bloom in the Spring—tra la!
are succeeded by others in Fall.
In Winter, they meet
In snow and in sleet
But in August—they scarce meet at all!

of regional interest

Aug. 26-30: National Council of Engineering Examiners—
47th Annual Convention—Brown Palace Hotel, Den-
ver, Colorado.

arizona

Aug. 12: Construction Specifications Institute/Tucson
Chapter — Board Meeting (all members welcome)
12:00 noon—Rallis Pub in the basement of the Trans-
america Building.

colorado

Aug. 6: Consulting Engineers Council/Colorado—Directors
Meeting. Cocktails: 6:00—Dinner: 6:30 p.m. Denver
Press Club. (Note: All members are invited and urged
to attend Board meetings. For reservations: telephone
244-4714 before noon of the previous day)

Aug. 7: Association of Remodeling Contractors—Board of
Directors Dinner: 6:30 p.m.—Four Winds Motor Hotel,
Denver.

Aug. 8: Mechanical Contractors Association — Luncheon
Meeting—12:00—New Plumbing Showcase—2727 West
6th Avenue, Denver.

Aug. 8: Colorado Pipe Trades Industry Program/Board of
Trustees. 4:00 p.m.—New Plumbing Showcase.

Aug. 17: Construction Specifications Institute/Denver
Chapter Summer Party . . . Phil and Mary Smith in
charge—notice to be mailed.

Aug. 21: Women in Construction/Denver Metropolitan
Chapter Regular meeting and Election of Officers.
Cocktails: 6:00 — Dinner: 6:30 p.m. — Ranch Manor
Motel, 1490 South Santa Fe Drive.

Aug. 26: Associated Building Contractors of Colorado, Inc.
(AGC) Executive Committee — Luncheon Meeting —
Place to be announced.

Aug. 26: ABC Construction Advancement Fund Trustees—
2:30 p.m. Place to be announced.

Aug. 30: Consulting Engineers Council/Colorado—General
meeting. Speaker: Senator Peter Dominick (R. Colo.)
Cocktails: 5:30—Dinner: 6:30—Denver Athletic Club.

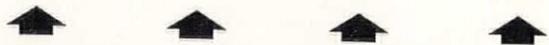
new mexico

Aug. 13: Construction Specifications Institute/Albuquerque.
Chapter — Annual Steak Fry and Golf Tournament
Arroyo del Oso, Albuquerque.

Aug. 14: New Mexico Building Branch/Associated General
Contractors Albuquerque—Place to be announced.



(NOTE: May we ask your cooperation in sending us your
meeting notices for use in Memo? Most regularly sched-
uled meetings will begin in September—so let's have the
time, the place, etc., by about August 10! Will you ad-
dress them to Symposia—to the attention of Florence
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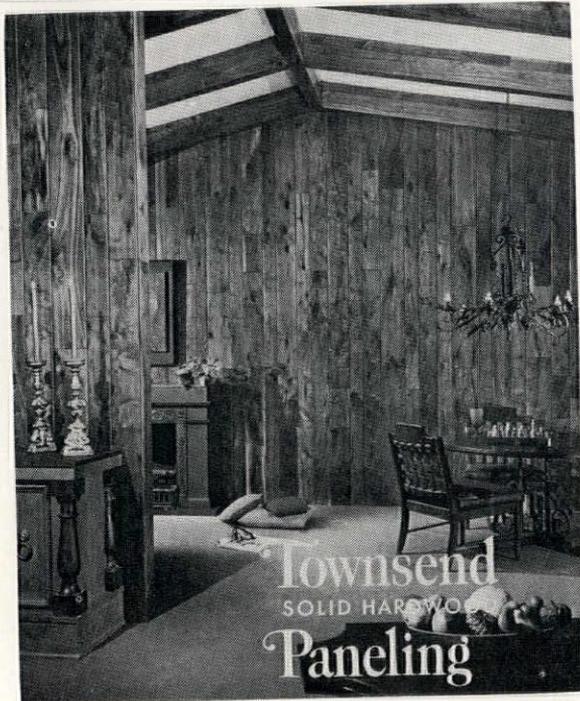
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Englewood, Colo. 80110
Phone 789-2275

symposia/about the cover

A few of our organizational balloons are poised for take off on our August cover. Most of us are more than willing to float awhile in a halcyon summer sky before zooming off into another year of activity in the Rocky Mountain construction industry.



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LEGISLATION/A FORUM

devoted to the legislative problems of the architecture/engineering/construction community in the region

WILL BILLBOARDS WIN AGAIN?

The whopping 12 billion dollar Highway Bill is, at this writing, in a joint House-Senate Committee. Not one penny is to be cut from this measure, but legislation providing for Billboard and Junkyard control, and for highway landscaping is virtually eliminated. Removed from this legislation is the bonus to states which carry out beauty and safety requirements—a “come-on” which has been endorsed by 19 States. Gone will be any aesthetic considerations—plus any restrictions for highways through parks, historic sites and wildlife preserves. Since those of us in what is left of “God’s Country” have a real stake in this process—no stone should be left unturned to defeat the Billboard Lobby which accounts among its warm admirers . . . William Cramer (R-Fla.), John Kluczynski (D-Ill.), Sen. Jennings Randolph (D-W. Va.). These men are not OUR representatives in Congress—but it would be well to inform your own Congressmen and Senators of your feelings on this vital issue—plus a short missive to those who are so willing to dispose of our “great heritage” in the Rocky Mountain West. We are perfectly capable of desecrating our own landscape . . . viz: Highway 70 at 32nd and Youngfield in Jefferson County.

WATER COMMISSION (S. 20)

Senator Jackson’s bill to establish a seven-man commission to review and make recommendations on U.S. Water Resource problems continues to get the “cold shoulder” from a joint House-Senate Conference Committee. Major stumbling block appears to be who should serve on the Commission. CEC/US suggests George D. Clyde, former Utah Governor. (Credit CEC/Utah Newsletter)

ROBERTSON CALLS FOR AMENDING LAW

Dr. Lawrence M. Robertson, chairman of the Colorado Board of Registration for Professional Engineers, is calling for legislation to close a loophole allowing non-Colo-

rado registered engineers to do various work within the state.

Robertson said complaints have been received, and there are probably other violations not brought to the attention of the board.

Said Robertson: "The city, county, and state authorities which issue building permits for structures to be constructed in the State of Colorado should require that a Colorado Registered Professional Engineer's seal and signature appear on all engineering work as required in Section 51-1-18 before a building permit would be granted."

While not phrased in its final form, here is a suggested paragraph Robertson would like inserted in the law:

"City, county, and state agencies who issue building permits for the construction of engineering work as a result of the practice of engineering as defined in Section 51-1-2 (9) will not issue a building permit unless a Colorado Registered Professional Engineer's seal and signature appears on the engineering work as required by Section 51-1-8. The permit granting authority will use the current year Roster issued by the Colorado State Board of Registration for Professional Engineers and Land Surveyors to verify the Professional Engineer's registration, number and name which appears on the engineer's work. If any discrepancies in registration are found, the Colorado State Board of Registration for Professional Engineers and Land Surveyors will be notified and no building permit will be granted until the problem has been resolved by the Board and the permit granting authority so notified." (From CEC/Colorado News Bulletin, July, 1968.)

PROFESSIONAL NEGOTIATION

The Executive Committee of The American Institute of Architects has released a statement reiterating its support of "professional negotiation" procedures now followed by government agencies which do not involve price competition in the selection of architects and engineers.

The Committee stated that it is opposed "to competition on the basis of price for professional services, including Research and Development work. This opposition is based on the conviction that competitive bidding or competitive negotiation for professional services is not in the best interests of the Government."

Further, the AIA urged "the Government to adopt a policy of selecting contractors for services of this type on the basis of qualifications and technical competence subject to the negotiation of a fee satisfactory to both the Government and the potential contractor."

As an alternative to the policy of competitive bidding or competitive negotiation now being used by the U.S. Department of Housing and Urban Development to select a contractor for the in-city experimental housing project, the Institute called for adoption of proven "professional negotiation" procedures for choosing architects and engineers, that is, selection of the best qualified contractor without reference to price, subject to mutually satisfactory negotiation of the contract.

COMPTROLLER GENERAL HITS EEO POLICY

The Comptroller General of the U. S. has supported AGC's position against the propriety of EEO pre-award procedures. Assistant C. G. Frank H. Wetzel, in response to an inquiry from Florida Congressman William C. Cramer, stated that "affirmative action" requirements must be clearly set forth in pre-bid documents and not "mentioned vaguely before the bidding." A copy of the Comptroller's opinion is available in most AGC Chapter offices. (Miscellaneous Bulletin No. 7—Associated Building Contractors of Colorado, Inc.—AGC)

ELIMINATE SQUEAKY FLOORS!! American Plywood Association Now Recommends H. B. Fuller Company **WHITE STUFF**

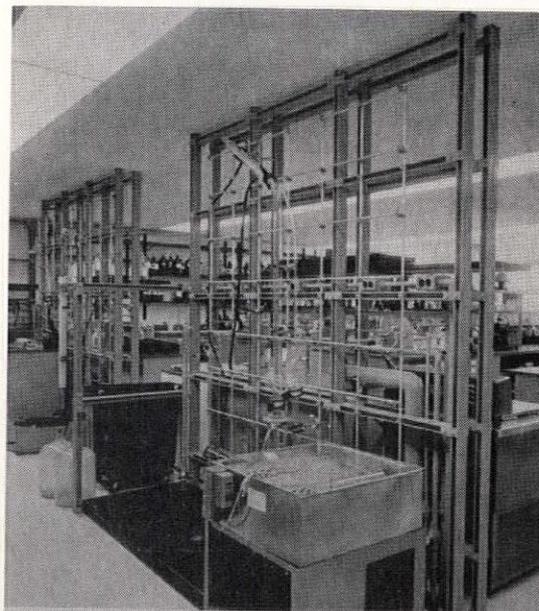


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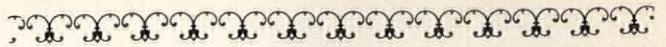
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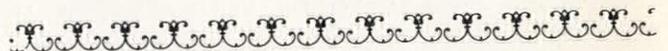
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an example of how
IDEALITE
opens up a new
era of expression for
architects/engineers
where soil problems exist

The loose, deep sand at the building site of the new Fort Morgan High School gave very low bearing value to the soil. Therefore, two things had to be done. First, through vibration and compaction, the relative density of the soil was increased. Second, Idealite lightweight concrete was selected as the primary construction material to reduce the weight of the structure.

The design utilized four structural systems, all post-tensioned: 1) two-way waffle slab; 2) one-way joists and one-way zee type sections; 3) folded plates; and 4) haunched slabs.

Because of its lighter weight and maximum strength, Idealite permitted the large clear span design. The library is a 65' x 90' clear span area and the auditorium has 90' spans with the balcony supported by two post-tensioned Idealite concrete channel frames to eliminate the need for columns.

When you are considering the construction of a building, Idealite lightweight concrete offers many advantages – superior insulating properties, low absorption and low shrinkage, up to 30% lighter weight without sacrifice of strength.

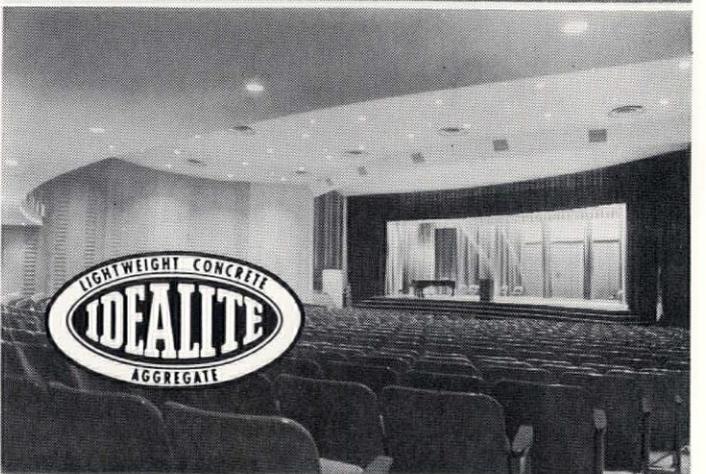
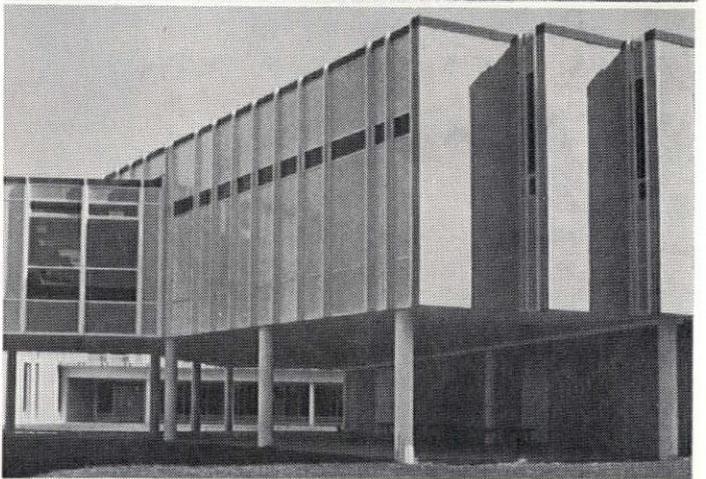
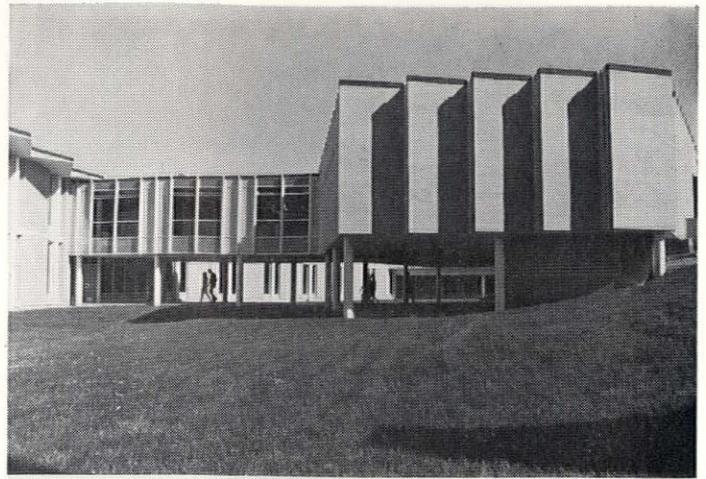
Idealite lightweight concrete makes possible buildings that are higher, spans that are wider, designs that are handsomer.

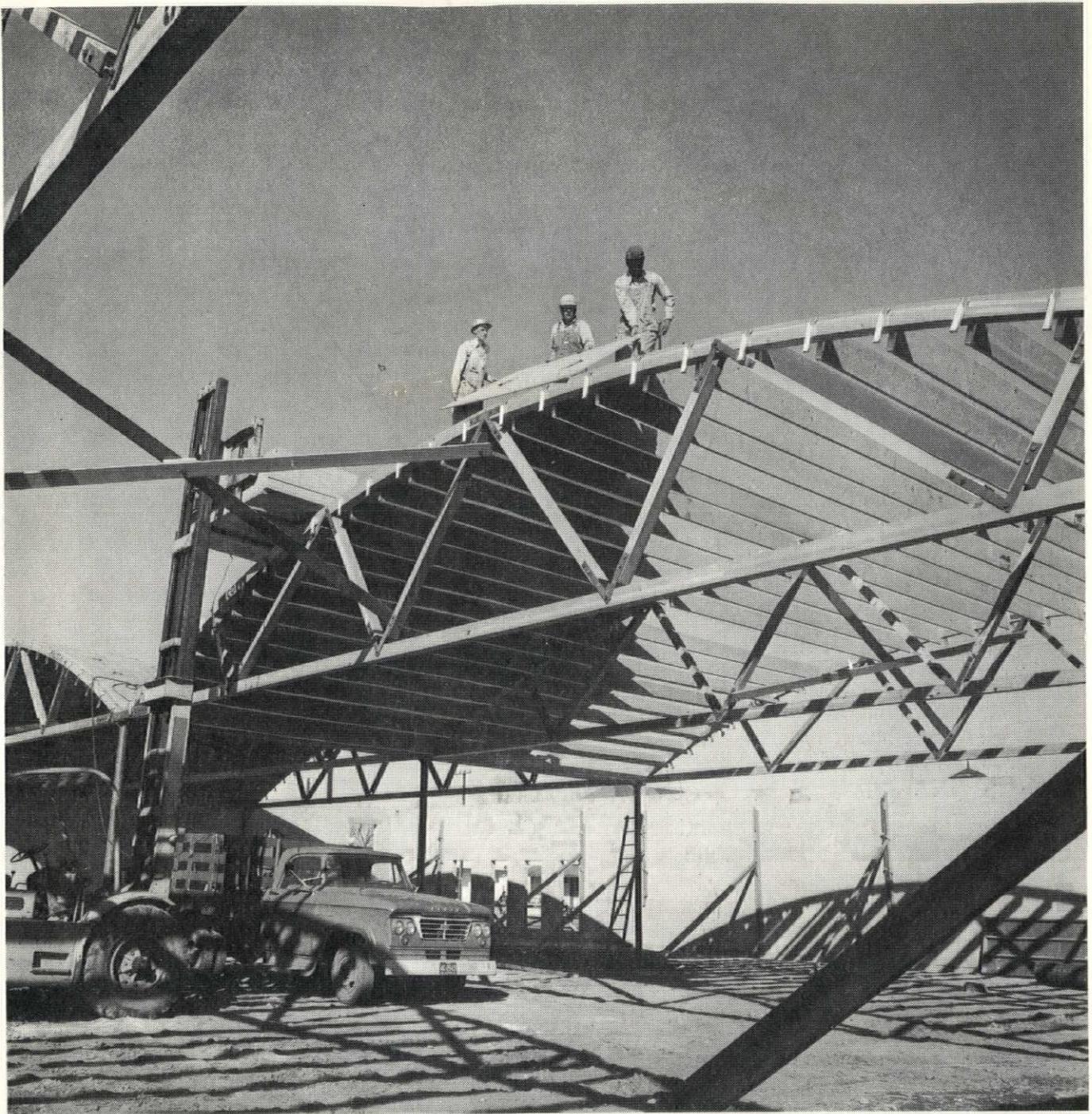
Architect, Wheeler & Lewis; Structural Engineer, Russ Kostroski

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