HOUSES ON SAND

Chicago Sky-Scrapers That Are Built on Rafts

Impossible to || Reach Bed Rock, A Bed of Clay Over Plastic Mud Supports Them

"Do you know," said a famous architect the other day, "that modern architecture is a buge paradox? The heaviest and tallest buildings are really houses built upon sand-or the mud as the case may be."

'Then how do they stand?" he was

"Oh they are safe enough. Take the Park Row Building in New York. It is the tallest commercial structure in the world, and probably the heaviest also. It weighs over 55,000 tons, which means a pressure of nearly 9,000 pounds on each square foot of the site. It is about a hundred times as heavy a load as a good highway bridge is designed to carry. And yet this enormous load rests upon a bed of fine, wet sand scarcely different from quick sand and a hundred feet deep.

"It is perfectly safe. Nearly 4 000 large piles were driven in it by a 2,000-pound hammer falling 20 feet which compacted it until even these tremenduous blows could force them no further, and they could carry their loads of 32,000 pounds each. Groups of these piles were capped with concrete and pyramidal brick tiers were built on that. Steel beams were laid on the flat tier tops to distribute the loads over the surface of the masonry. Some of the columns carry as much as 3,000,000 pounds each.

"Many of our heaviest buildings are really supported on stilts-that is to say, on foundation piles driven through the sand or mud to the solid

"In other cases heavy buildings are supported on piles which neither reach to hard bottom nor are driven in firm soil. Long piles are driven into very soft mud and ailt, into which they sink many feet by their own weight and by light blows of a steam hammer. fifty feet and left undisturbed a few the mud

steel beams and girders.

earthquake shock.

which they are built.

"Fow if any, tall buildings are on is nover warranted. worse soil than those of Chicago. "Bassonio,-Wrest once the law to Here, only ten or fifteen feet below the surface, is a crust of clay not To do a great right do a little wrong; more than ten feet thick, which floats And curb this cruel devil of his will. feet deep. Piles more than 100 feet long would be required to reach the Can alter a decree established: hard pan or bed rock, and most of Twill be recorded for a precedent; the tall buildings there really stand on And mighty errors, by the same exgreat rafts built on the surface of the BRESLY.

Inches."

sand. The native architects of India setred;" etc.

PE-RU-NA NECESSARY TO THE HOME.

A Letter From Congressman White, of



of the great catarrh cure, Peruna:

House of Representatives, Washington, Feb. 4, 1899. } Peruna Medicine Co., Columbus, O.:

excellent remedy for the grip and ca-tarrh. I have used it in my family and they all join me in recommending it as an excellent remedy."

rounding the home, society, the state, the nation with stronger barriers. Di-viding the way between temperate and intemperate, pure and impure, make Very respectfully, George H. White.

Mrs. Nannie Wallace, Tulare, Cal., President of the Western Baptist Mis-

sionary Society, writes: "I consider Peruna an indispensable article in my medicine chest. It is systematic petition work, looking to twenty medicines in one, and has so far the establishment of a state industrial cured every sickness that has been in school for girls. Through this influmy home for five years. I consider it of special value to weakly women, as it builds up the general health, drives out the need of reformation." disease and keeps you in the best of health."-Mrs. Nannie Wallace.

full statement of your case and he will be pleased to give you his valuable advise gratis.

have done so for centuries, sinking standing here today, on the heights of deep brick walls into their soft wet, prophetic vision, we can but exclaim: alluvial soil to serve as foundations,"

Judge May Construe the curse of drink,"

(Oregon Law School Journal)

The leading newspapers of this State have been recently interviewing many prominent attorneys and making extended comments upon alleged is one of the most brilliant platform If they are driven there thirty or defects in the taxation laws enacted speakers in the country, as well as a hours. It is found that the adhesion of It appears from such attorneys inter-ture tonight at the auditor the tenacious mud is so great that views that they are nearly unanimous First Methodist church, will be the that they can hardly be started again, in their opinions that this law from a event of the session. and may be safely trusted to carry legal standpoint is susceptible of but heavy permanent loads, which are one construction. And notwithstand vention are beginning to sizzle and really supported by the stickiness of ing this fact, as we understand some bubble. They are over the matter of "The St. Paul Building in New that a sult should be brought in or headquarters, but there are hopes that York is supported on a very deep bed der to obtain a decision of our courts these "bete noirs" will be amicably adof fine wet sand which was only ex- for the reason that they were exceed- justed by the tact and diplomacy of cavated to a depth of about thirty-two ingly liberal in order to make laws ef- the leading lady politicians of the feet. A one-foot layer of concrete fective when public interests were in convention. was spread over the bottom of the pit, volved. It may be that such attorand on this were set the real found neys have been misquoted or in their ations, consisting of crossed layers of haste have not given clear expression to thoughts intended to be conveyed "The Spreckles Building in San for every well-informed lawyer knows Francisco, which weighs over 24,000, that it is beyond the province and 000 pounds, rests on dense wet sand power of a judge to enact or change on which a solid platform of steel and laws. Our government was framed artificial stone was laid as a foun so that one department should enact dation. This building has passed un laws, another should construe, and injured through the test of a severe [still another should enforce them. The history of the past taught the "In another big building the col-framers of our government that the mms are seated on inverted arches, liberties of the people would be tramwhich distribute their loads over all pled down if the power to enact or the space between them. The arches change laws and the power to construe are laid on long, wide concrete foot laws were both vested in the same deings, which reduce the unit pressure partment. If the legislature has falled tain of the tugboat "U. S. Grant," Mrs. sufficiently for the fine wet sand on to do its duty it is solely responsible L. It Addition, national organizer and

your authority:

power in Venice

ample,

clay. It has been found that a load of Will rush into the state; it cannot be." 3,000 pounds per square foot of clay | The Supreme Court has on many oc she resided in Salem, and took a promsurface will settle slowly for several casions held that it could not supply inent part in many of the occasions months. After settling perhaps two defects in legislation. Justice Bean, inches it will become stationary, and speaking of the power of the court in was humorously referred to by State may be considerably increased with this regard, in the case of State ex rel. President Harford, she next became vs. Simon, 20 Or. 365, giet 371, said: Mrs. J. W. Robb, and is now Mrs. "Very often buildings are deliber "It is our legitimate province to inately started above grade, and it is terpret legislation, but not to supply life, and in full possession of her inreckoned that they will sink so many omissions." The Laws of our State tellectual powers. Her reminiscences declare the same rule Section 706 of pioneer life and experiences in "Huge structures built on such our Code reads as follows: "In the crossing the plains, especially among foundations are perfectly safe," the construction of a statute or instru- the Mormons, make Mrs. Steel a most architect continued. "Almost any ment, the office of the judge is simply entertaining narrator of early Oregon soft soil can be successfully conquered to ascertain and declare what is, in history. nowadays by an architect who knows terms or in substance, contained his business. We Americans are not therein, not to insert what has been the only people who build on the omitted, or to omit what has been in-

W.C. T. U. CONVENTION

(Continued from page one.)

garding women's suffrage she said in part:

"Keep the franchise question constantly before the people, and some day the men of Oregon will honor the women with the greatest power a nation can bestow upon its citizens, the elective franchise,"

Concerning the value of the W. C T. U., she said:

"Today we are in demand. The many advances along all pathways of effort, the victories gained, the alarm of the liquor men, the willingness of the world's thinkers to give the temperance cause a place, the large space open to its varied interests by the press, the gain in prohibition area, should give to every one here today, Congressman George Henry White, of members and others, and all who may Tarboro, N.C., writes the following letter hereafter read this address, fresh to Dr. Hartman in regard to the merits courage to be and to aid in this work which comes to us.

"For the sake of our sisters, the wage-earners, who struggle for daily Gentlemen-" I am more than satis. bread, let us do our part toward sur fled with Peruns, and find it to be an rounding the home, society, the state, viding the way between temperate and intemperate, pure and impure, make a safe path for their feet to travel in life's activities. The co-employment of the sexes is here, never to be eliminated." * c *

"I would suggest that we plan for ence we may save many girls from

Mrs. Harford urged the establishment of headquarters in Portland for If you do not derive prompt and satis- the Lewis and Clark Exposition, along factory results from the use of Peruna, with the other philanthropic societies, write at once to Dr. Hartman, giving a and advised sending a worker to Heppner to reorganize the union there, where the principal workers had Address Dr. Hartman, President of met death in the recent flood disas-The Hartman Sanitarium, Columbus, ter. Concluding her address, she said:

"Comrades, you have had your times of rejoicing and discouragement. But, Behold what God hath wrought.' Let our faces be set toward victory. Make plans for thorough organization, send broadcast your best literature, and the world will yet be saved from

Lecture Tonight.

Miss Lillian B. Phelps, of Canada, will lecture tonight on "St. George and the Dragon." Miss Phelps addressed the students at chapel this morning at Willamette University, and at the last session of our legislature. lady of charming personality. Her lec-

The burning questions at this conof these interviews, it is suggested a state paper and location of state

Wednesday Proceedings.

The report of the corresponding see retary for Oregon shows a membership of 2000, with 300 honorary members, and 386 members added for the year. There are 200 Union Signals and 275 Searchlights taken. Fifteen Union maintain headquarters, and about as many have free reading rooms. The corresponding secretary pro tem is Henrietta Brown, whose husband was the late Mark B. Brown, for many years editor of the Albany Democrat, and at one time state printer, Another noted pioncer woman present is Mrs. Kern, wife of Capt. J. W. Kern, well known as capto the people, but judicial legislation head of department of labor, is riso

Most Noted Woman.

Probably the most noted woman at the convention is the Marion county president, Mrs. Wm. M. Steele. She on wet plastic mud from sixty to 100 Portia.-It must not be; there is no was Miss Rebekah Parrish, daughter of the Rev. Edward A. Parrish, whose home, at Parrish gap, was a beaconlight of hospitality to the pioneers of early Oregon, was became Mrs. Samnel E. May, her husband being secretary of state, and for over 20 years of the official life of the capital. As Steele, a woman still in the prime of

Thursday Morning, October 22. 9:00-Service of song.



9:20-Reading of minutes.

9:30-"Our Cabinet and Its Contents Presented for Inspection," continued, Mrs. H. D. Harford, Mrs. Mary A. Wright, Mrs. Achsah M. Mor-M. Kern, Mrs. Eglantine Geer, Mrs. Rachel Webber, Solo, Mrs. Anna Edgington, Mrs. Mary E. Townsend, Mrs. Louise P. Rounds, Mrs. Helen A. Adkins, Mrs. C. A. Gearhart, Mrs. Harvey Balley.

10:45-"Munitions of War," finance committee.

11:10--"A Family Conference," Shall we own a paper? Report of committee on paper. Discussion.

11:40-Thank offerings, in charge of Mrs. Elizabeth Dalgleish.

Noontide prayer. The Union Signal.

Afternoon. 1:45-Music.

Devotions. Reading minutes.

2:00-Memorial hour. Solo, "Saved by Grace."

2:30-"The Clarion Call," by counties. Mrs. Benona Osborne, Bakor; Miss Myrtle Shannon, Coos; Mrs. Ida Marsters, Douglas; Mrs. Mary A. Stoner, Jackson; Mrs. Eva C. Wheelris, Mrs. Henriatta Brown, Mrs. Sarah er. Lane; Music; Mrs. Madge J. Mears, Linn; Mrs. Rebekah M. Steele, Marion; Miss Frances E. Gottshall Multnomah; Mrs. Chole L. Butz, Polk; Mrs. O. B. Ginn, Sherman; Mrs. Ida M. Courtney, Yamhill.

Music.

3:50-Pledges for state work 4:15-"Where our vanguard i today, our rear guard camps to

Loyal Temperance Legion. Adjournment.

Just Fresh.

A fine lot of fruit cakes can be fo now at the California Bakery, Court street.

Phone: Main 2953.

ALL WORK DELIVERED WHEN PROMISED

193 Commercial St. Over The Journal.

Two Points

There are two important point about my work: It is good and the service is quick. This may be of some moment to you on your next order for printing.

Elliott, the Job Printer.

TO THE LADIES

Of Salem and vicinity, we desire to say a word. Our store is so crowded for space that to make room for

Close Out Our Entire Stock of Dress Goods

Cloths which were made in our Salem factory especially for ladies' use. They comprise a fine line stylish black, brown, tan, blue, navy, oxford and mingled Cheviots and Thibet cloths, and make up

FOR SKIRTS, JACKETS, CAPES, CLOAKS, ETC.

These goods are 54 inches wide, and have been selling regularly at \$1.25 a yard, while regular dry good stores, buying through wholesale houses, have to sell such goods at \$1.50 to \$2.00 a yard. While they l you may now have your choice at

95c Per Yard

While addressing the ladies we desire to call attention to our complete stock of

Woolen Mill BLANKETS Salem Made

All manufacturers of woolens, East and West, admit that Oregon's wool and mountain water are peclast adapted to the making of the finest qualities of blankets, in fact, that Oregon produces the FINEST BLANKETS IN THE WORLD. Some may not appreciate the fact, as our blankets come right from the looms to our counters, instead of through the roundabout channel of wholesale house and "drumms" We are thus enabled to sell blankets

Cheaper Than Anywhere Else United States

Some think a blanket is a blanket-but there's often just as much difference between two blankets of the same color as between a ten and a twenty dollar gold piece. Three points are not to be overlooked blankets, namely, size, weight and quality. On all these points we challenge the world to meet blankets at our prices.

FLANNELS Our own make.

Best and

Cheapest.

INDIAN ROBES For buggy robes or couch covers