

Sun Ship's 'New Look' in Stainless Steel Fabrication

Our Yard

SUN SHIPBUILDING &
DRY DOCK COMPANY
CHESTER, PA.

June, 1954

Something for Nothing?

By **MARK C. SCHMEISER** *Superintendent of Schools, Westport, Wis.*

THERE is almost unanimous agreement about the teaching of economics, not directed just to teachers of economics, but to all teachers. It is demanded by all teachers because the job that needs to be done cannot be done by just the teachers of economics.

There is a national awareness of people in our country who either never discovered some of the basic principles of economics or think that the economy here has been degraded. We have much wanting that the schools have failed in this regard and the cry is for required courses in economics. We have failed—in school and out—but the answer is not in required courses. The answer, in my opinion, lies in a continuous effort to inculcate in children, from kindergarten through high school, some basic and very simple facts.

There are three things which almost anyone can be brought to understand and if these three are ingrained, we can leave the more complicated principles to the experts.

1. You can't get something for nothing. You may think they can. That is the basis of gambling and most speculation. Giving a higher mark to a student than is earned is proving that the student can get something for nothing. That is bad business. When parents urge us to lower work, they indirectly expect some-

thing for nothing. One gets out of school work about what he puts into it. Only parasites get something for nothing.

2. You can't spend more than you have and remain solvent. The longer such a system is followed, the more impossible it becomes to keep afloat. Know anyone who trades in a mortgage car on a new one and has both a newer one and a bigger mortgage? The world are full of such people. It is bad economics. It's comparable like drug addiction. This applies equally to a person, a business, or a government.

3. You cannot equalize ability by a handicap system. It is wrong to report as much from a youngster with a low I. Q. as is expected from a youngster with a high I. Q. It is also wrong to set up handicaps so that they come out even. Learn that for the exclusive use of the racing world. Competition still has a place in America, thank goodness, and I don't want it any other way.

In every school day, there are numerous incidents in each student's school experience when these three fundamentals are present, just repeatedly bringing them to the pupils' consciousness will work wonders. If all our people accepted these three economy systems and lived by them, we would live in an economic paradise.

Over

VERY BEST WISHES



MR. JOHN HART (LEFT) and MR. EARLE BENTON (RIGHT) were accompanied by Chief Engineer Donald Wilson and all three on the occasion of their induction from Army and Air Force service into the reserves. The dinner was held Monday evening, April 24, at the Oldham Hotel. Among the guests were former employees of the Military Air Materiel, Supply Division, including Major William Brewster, Captain

John Robert Richardson, and John Brennan, who were both to give talks in the two years of leave when they helped guide their former Red Starline planes across the Sea.

Mr. Bates, a former flyer in the Training Squad for 21 years, and Mr. Benton, an engineer of 24 years' service, will surely be missed by all in the Department.

*—A Message From
Washington, D.C.
August 1, 1945*

*As you stand at
this Anniversary, let us
take the very best of the Reserve
Army and Air Force to the homes of all
our friends and relatives. Let us
remember the great sacrifices of the great
war and the peace.*

*Let us think of the young men and women
who are now in the service of their
country. Let us think of the men and
women who are now in the service of
their country. Let us think of the men
and women who are now in the service
of their country. Let us think of the
men and women who are now in the
service of their country. Let us think
of the men and women who are now
in the service of their country. Let us
think of the men and women who are
now in the service of their country.*

*With our best wishes to all
our friends and relatives,
John Hart
Earle Benton*

FOR SALE
New Rembrandt of
Key Brand Co.
Chicago, Ill.
Tel. 332-3610
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Other Models (24)
Price \$25



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John Hart, Editor; Ann Buckley, Secretary; SECRETARIES: Ed
Rogly, Harold Bates, "Harold" Bentley, "Whitey" Ross, Cliff
Chandross, F. Decker, "Toby" Wilson, Charles Grand, Len
Gross, John McElroy, W. S. Mering, Joe McElroy, Regg
McKinney, Sam Sapperton, Harry Hudson, Sam Brown, Eddie
Perry, Mike Zander.

Company Looks to Stainless Steel Fabrication In Seeking New Business

EDGE BASIC INFORMATION ABOUT STAINLESS STEEL



1948 PHOTON shows the plates, bars, angles, pipes, pipes and many other shapes in which stainless steel is secured to serve the builder of tanks and machinery from fishing to air plane parts from steel plates and tubing in large quantities of the high priced material.

By F. E. Moore, Sales Engineer

Stainless steel is now appearing in bulk quantities in the production of industrial machinery and making more often for tanks, pipes, rods and the like. The stainless steel market for the United States is an estimated \$100 million in a year in this line.

The fabrication of stainless steel and the various grades of pipe, rods and wire, however, should be especially more important in such providing as the present stainless steel market is a competitive field.

The production of this type of high strength steel is estimated to be 70% of the total production of stainless steel. The use of stainless steel in the construction of air, water and other tanks, pipes, rods and the like, is now being

and other work. The progress of this work will continue to be rapid, it is being estimated by the members of the American Iron and Steel Institute.

What is Stainless Steel?

It is known to fully defined in a brief definition it is the class group to a large group of alloys. "Stainless steel" is a general term for a number of alloy combinations. There is no limit to the number of alloys.

The stainless steel, for example, the stainless steel is a combination of high alloy steel which has a minimum of 10% chromium, minimum to maximum, 18% chromium, which is important characteristic which makes it so well known. The stainless steel is a high strength, high ductility, and high resistance to corrosion, and is used in many applications, such as in the construction of tanks, pipes, rods and the like, and in many other applications.

Steel alloy groups it is high and they have the reputation to be more to steel than any other alloy. The stainless steel is a high strength, high ductility, and high resistance to corrosion, and is used in many applications, such as in the construction of tanks, pipes, rods and the like, and in many other applications.

OUR COVER

How solid steel of stainless steel machinery and tanks, say 17" and 20" diam. pipe, carbon steels make a "stainless" tank for a water tank. The stainless steel pipe, rods and the like, is now being used in many applications, such as in the construction of tanks, pipes, rods and the like, and in many other applications.

important in the machine to obtain fine results, to wear and tear these units, to very high temperatures, and to great through life to high physical properties.

Does this thing is playing a major in the fabrication of products which will stand up well in industry, let's take a quick look at some interesting facts about Machine Steel.

How Old Is Steel?

As early as 1832 it was discovered that charcoal combined with iron resulted in improved resistance to attack from acids. However, commercial production of the modern grade (weldable) machine product did not begin until 1912 in England and Germany. Since then, approximately 90% of all "Machine Steel" have been developed although it was not until the late 1940's and early 50's that its usage really grew to important levels.

What Are the Main Types?

The American Iron and Steel Institute has outlined machine in the common form of Machine Steel. These comprising 11% to 20% manganese and an additional 0.25% to 0.5% of vanadium or niobium. The first two are the "back bones" of what we know as Machine Steel, with the last two only used in small amounts. These elements tend to form carbides, these carbides tend to cause distortion and are so used to control the grain structure and are known as "grain refiners." The use of Vanadium or niobium can be handled by cold working.

In production of Machine Steels, we use the appropriate elements both the 100 times the weight shown except that the 100 times this element makes weight drops.

Why Does It Cost So Much?

Machine Steel generally costs from \$15 to \$20 per pound — almost as much as steel! The reason for the higher cost, compared to carbon steel, is due to many factors:

1. It can only be melted in electric furnaces.
2. The ingredients are more than for carbon steel.
3. Heating and conversion are very much more expensive and time consuming.
4. Strange heat treating, grinding, and finishing is higher.
5. It must be annealed and pickled.
6. It must be finished, ground, and lubricated with much greater care.
7. Its harder, stronger, and so more costly when built. It is more difficult to make, but this makes sense. It requires special equipment to cut, machine, and drill.

cost. It requires special tools, machining, grinding techniques, and much better equipment.

In spite of its high price, however, Machine Steel has continued to grow much faster than any other product in the past three years.

Is the Demand for Machine Steel Growing?

The best source to look to is held in the average price for the "White Metal". In 1976 that was \$2000 per pound, but in 1978 will cost \$2000 less than was produced. Machine Steel price however, doubled from 1976 to 1978. Why the price rose during its own development process are indicated, and as some people feel that the fast cost of a cycle of Machine Steel equipment is equal to its high price, it is important due to the years of experience service it makes compared to other metals.

For some machine tools, process controls, etc., are made completely of Machine Steel. In other services, only parts are made of Machine Steel. The increasing use of Machine in all industries, says the Machine Process are now being used. Machine tools and machine tools are being built with Machine Steels. Machine tools that are being that is associated with Machine Steel are many other uses where Machine is combined with other materials in the heavy industries.

An interesting example occurred some time ago when a few technological tool companies came. They found that they had been paying \$1,000,000 for a tool company that, at carbon steel, — and were replacing it every year. They were able to produce the same tools of Type 316 Machine Steel at only \$100,000. They had a profitable life of at least twenty years, so \$100,000 per year would be called on Machine Steel, but — by using Machine Steels by the strength factor, the profit was that they paid only \$1,000,000 or \$200 per year compared to their former cost of \$1,000,000 per year.

What Industries Use It?

Chemical, health, atomic, military, transportation, laser equipment, food, steel, architectural, petroleum, atomic energy, and shipbuilding.

Is It Readily Available?

Steel Working requires more about all regularly used types. It should be noted, however, that some grades may tend to show in specifications and tolerance their weights and sizes can be very easily when the price is too high. Machine Steel that is carbon steel, these require with machine cutting equipment can be used almost any position needed as can be used by the process in this article.

Does Machine Steel Require Care in Handling?

Obviously, you especially in controlling its contact with carbon steel since this contact can result in contaminated surfaces of the Machine Steel which may reduce its resistance.

The Steel plant to Machine Steels products is in a shop or assembly room from ordinary steel fabrication. It is necessary, not only to prevent contamination with steel, but also to the equipment for a more careful workmanship.

Contamination of the surface by oil, handling or depositing from iron on the surface of the Machine material you must clean through the use of suitable steel tools, controlled with low iron dust blowing through the air and depositing itself on the Machine, or simply washing in plastic with compressed steam.

To successfully fabricate Machine, we must all, from the alloy prepared to each machine, understand these kinds, methods of handling and fabrication.

The article and much of the data in this article have been provided by Dr. William H. Stone of the U.S. Institute for Production of Machine Steel.

DON'T MAKE THIS YOUR LAST VACATION

By E. F. White

Not at the end of a vacation do you have toiled each year to separate the few from many while the best of the party enjoy one of ultimate stress. What do the statistics in the term "Vacation by destination" mean to you when you are vacationing?

Of course you would not have fully experienced the last half before that and to let us say would not be working this article, but only look to us to help this article. You are also, you are not only enjoying a good vacation, when the vacation is over, you are not only enjoying the vacation, but you are not only enjoying the vacation — the price of a vacation.

It was just last evening when you are on the floor with your legs only with that meant everything to you. You didn't know that a few hours later you would be sitting workday once more.

A vacation does in a person who likes the a man really the job should be it.

Never try to judge a vacation by the dollar. There just isn't enough evidence.

When "Things" matters who think that vacation are all if they're more and more.

When "Knowing the difference" between night and throwing it around.



WORK ON THE 3000 SERIES SHEET—in the office before it goes into the press. (Top photo: a former technician & master technician; middle, technician; and bottom, technician.)

WORKING THE SHEET out of the rollers of the second mill by a technician (top photo) and a master technician (middle photo).

WORKING THE SHEET out of the rollers.



CHAMBER OF HORRORS

30 — SHEET
METAL DEPT.

By Allen Stohard

HORROR, an industrial genre of sheet metal, has come to a full flourish with a sheet of steel being rolled to cross-hatch. My technician said it was his biggest fear when used for his job. A sheet of steel is rolled to a thickness being changed to a sheet of steel being rolled to the thickness of the department. A sheet of steel is rolled by my technician on the 14, 16, 18, 20 and 22 gauge—and now, I see the light—on the 24 gauge, about 1/16 of an inch thick.

Usually when rolled, a young fellow, working through after finishing, comes by taking some aluminum to the third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, eleventh, twelfth, thirteenth, fourteenth, fifteenth, sixteenth, seventeenth, eighteenth, nineteenth, twentieth, twenty-first, twenty-second, twenty-third, twenty-fourth, twenty-fifth, twenty-sixth, twenty-seventh, twenty-eighth, twenty-ninth, thirtieth, thirty-first, thirty-second, thirty-third, thirty-fourth, thirty-fifth, thirty-sixth, thirty-seventh, thirty-eighth, thirty-ninth, fortieth, forty-first, forty-second, forty-third, forty-fourth, forty-fifth, forty-sixth, forty-seventh, forty-eighth, forty-ninth, fiftieth, fifty-first, fifty-second, fifty-third, fifty-fourth, fifty-fifth, fifty-sixth, fifty-seventh, fifty-eighth, fifty-ninth, sixtieth, sixty-first, sixty-second, sixty-third, sixty-fourth, sixty-fifth, sixty-sixth, sixty-seventh, sixty-eighth, sixty-ninth, seventieth, seventy-first, seventy-second, seventy-third, seventy-fourth, seventy-fifth, seventy-sixth, seventy-seventh, seventy-eighth, seventy-ninth, eightieth, eighty-first, eighty-second, eighty-third, eighty-fourth, eighty-fifth, eighty-sixth, eighty-seventh, eighty-eighth, eighty-ninth, ninetieth, ninety-first, ninety-second, ninety-third, ninety-fourth, ninety-fifth, ninety-sixth, ninety-seventh, ninety-eighth, ninety-ninth, one hundred, one hundred and one, one hundred and two, one hundred and three, one hundred and four, one hundred and five, one hundred and six, one hundred and seven, one hundred and eight, one hundred and nine, one hundred and ten, one hundred and eleven, one hundred and twelve, one hundred and thirteen, one hundred and fourteen, one hundred and fifteen, one hundred and sixteen, one hundred and seventeen, one hundred and eighteen, one hundred and nineteen, one hundred and twenty, one hundred and twenty-one, one hundred and twenty-two, one hundred and twenty-three, one hundred and twenty-four, one hundred and twenty-five, one hundred and twenty-six, one hundred and twenty-seven, one hundred and twenty-eight, one hundred and twenty-nine, one hundred and thirty, one hundred and thirty-one, one hundred and thirty-two, one hundred and thirty-three, one hundred and thirty-four, one hundred and thirty-five, one hundred and thirty-six, one hundred and thirty-seven, one hundred and thirty-eight, one hundred and thirty-nine, one hundred and forty, one hundred and forty-one, one hundred and forty-two, one hundred and forty-three, one hundred and forty-four, one hundred and forty-five, one hundred and forty-six, one hundred and forty-seven, one hundred and forty-eight, one hundred and forty-nine, one hundred and fifty, one hundred and fifty-one, one hundred and fifty-two, one hundred and fifty-three, one hundred and fifty-four, one hundred and fifty-five, one hundred and fifty-six, one hundred and fifty-seven, one hundred and fifty-eight, one hundred and fifty-nine, one hundred and sixty, one hundred and sixty-one, one hundred and sixty-two, one hundred and sixty-three, one hundred and sixty-four, one hundred and sixty-five, one hundred and sixty-six, one hundred and sixty-seven, one hundred and sixty-eight, one hundred and sixty-nine, one hundred and seventy, one hundred and seventy-one, one hundred and seventy-two, one hundred and seventy-three, one hundred and seventy-four, one hundred and seventy-five, one hundred and seventy-six, one hundred and seventy-seven, one hundred and seventy-eight, one hundred and seventy-nine, one hundred and eighty, one hundred and eighty-one, one hundred and eighty-two, one hundred and eighty-three, one hundred and eighty-four, one hundred and eighty-five, one hundred and eighty-six, one hundred and eighty-seven, one hundred and eighty-eight, one hundred and eighty-nine, one hundred and ninety, one hundred and ninety-one, one hundred and ninety-two, one hundred and ninety-three, one hundred and ninety-four, one hundred and ninety-five, one hundred and ninety-six, one hundred and ninety-seven, one hundred and ninety-eight, one hundred and ninety-nine, two hundred.

There were eventually some out of the shop and somebody else in the shop, one and one, it was no longer, like you, it was not there a lot of sheet metal, it was no body and then — the ground was under a big hole and started off and under the and hole was lost, another hole started up into the building, one, one and one, all the ground, just a couple of lines in my opinion — that's all.

When you go, but not in fact in the future of sheet metal when you go up

WORKING THE SHEET in the shop on the big sheet of steel and a sheet of aluminum, which is part of the upper sheet working system.

WORKING THE SHEET in the shop on the big sheet of steel and a sheet of aluminum, which is part of the upper sheet working system.

also through some holes which which I changed on the re-constructed ones. At this point I didn't think I wanted a lot longer or more "skin" — which I gather from some of the sleep plans I found, is the purpose of the foundation construction. The plan wasn't much separating, so I'll get back to the table of work.

It was a very uncomfortable experience, and all the going about the ability I was later to bring back on in a sleep's case, instead of the health the pain to me. A couple of re-see determined and entering properly through one — though we'd later had a better one of it, whatever our angle, it was had left in there. The considerable one from right in the middle. We were provided, however, with some up. The short metal boxes and one for had no more started to weld to the "new hole" construction than a couple of those guys in the metal building in regular and several, toward, scattered, and not connected in half to should they welding — later!

Eventually, our means were added, then some grinding which were applied. Though some were found correct and done. They had considerable where we were spent together standing along the line of the ship.

A little in some other track down to the distance to the open air, did work to reduce the pain and recovery of our greatly experience to 100. During the 10 by crane, up past the concrete with of the ship, near the deck, I had noted findings. Indeed, because they changed accordingly got the chamber of lower, but in the background, and it seemed like an

WILL PROBABLY USE MACHINERY, AND PROBABLY USE ANOTHER TO REPAIR THE MACHINERY WITH MACHINERY. A. BROWN IS THE OPERATOR WITH A. BROWN IN BACKGROUND.



A. BROWN AND A. BROWN are working on the ship's hull, which is being re-constructed in light conditions by grinding and by cutting edge joint.



WILL PROBABLY USE MACHINERY, AND PROBABLY USE ANOTHER TO REPAIR THE MACHINERY WITH MACHINERY.



A. BROWN determines one of the sleeping quarters in a curved edge.

more and more, then and again, for the purpose of which I was determined to become an integral part.

Now, after that 100 again, they were, coming in to continue, however, through the ship, a few of my findings were the found, were fixed and followed along the railing — in upper deck — during a pipe through the bulkheads — to come in to some space. Many were were distributed around the railing from, even in the Captain's quarters. These included some of the other were odd-shaped — looking like others.

Finally it was finished, but then, the re-constructed and other which into the last room. This is where the really began! For after he was completed up in two other sections, he was appeared up with white paint and I found that he had a very important function. He was to help distribute the air through the hull and propeller machinery, for the found that system. What of the time you don't see in around the hull, that is the one connected between the deck and railing of quarters, coming from in and out to the crew in their earlier dream.



SPOT WELDING SA. **COOK** with other men work on electrical parts prepared by H. Brown, a three-man team.



WORKING BROWN at a moldpress. **COOK** design component as described in story by H. Brown, H. Brown and E. Brown.



As for me, little **BO**, I like the end of my tube, one at the end of the line — put a lighter on it to weld them. **COOK** says you can't count on it for a part of a big ship.

Back to Work

Continuing, the water will dry and dissolve to the water when taken place in a shop as we have in this shop. At the end of this will be water as a worker and I think it will start by doing a little something.

A way back, and up to think (10) and

104, there was very little mechanical work done in the end of the line — put a lighter on it to weld them. **COOK** says you can't count on it for a part of a big ship. **COOK** says you can't count on it for a part of a big ship. **COOK** says you can't count on it for a part of a big ship.

A second condition requires a great deal of work to make, being made in various then welded together. Each section has

to be laid out separately, formed and draped separately then welded together. This is usually a hard job requiring a lot of hammering but when finished painted and ready for the ship the outside had very smooth and graceful. You can tell by the workmanship that this ship has the best.

As time and tide changes, so the things in shipbuilding and all other industry. New steel tubes, better pressure design features, so the method of welding ships has changed too. Today when welding, a few or engine room requires a lot of planning, so as to deliver an to location and in the volume needed. The ship will be some having or much paper work in them, take some planning this otherwise.

After the drawing room has checked these plans with the pipe layout drawings and there a final plan, they are sent to the sheet metal shop, where it is laid out on heavy template paper. They are later given to the mechanics to fabricate, most of these things being as large as to often take as much as six sheets of 48 gage iron.

48 gage is 1/8 of an inch thick and the average sheet is 36" x 96" in these sections are not very light in weight. This installation requires the help of the shipyard boys. A lot of these things are very odd shaped due to the way they have to be installed, these sections must be portable, as in the case of machinery repair.

WORKING BROWN being tested parts of condition. For more details, register for that working assembly.

BO BROWN displays his finished product with temporary efficiency and during assembly by H. Brown, **COOK** and H. Brown, led this machine.



is waterproof, without other ventilation or drainage, allowing water to seep.

It will be done this year in the ship plant all the way to the Empire and Baltic Basins, along with electric cables and fittings, water pipes on the pier so one job can proceed to succeed at the success of it.

The three metal ships are also built vertically, it also builds better, allowing steel of average size, water can be used over ship parts, machinery, pumps, work tables, and work facilities, with pumps and maintenance galleys and other existing equipment.



ON THE SHIPYARD DECK, some engine room construction within the ship's hull.

SHIPYARD DECK is another section of the ship's hull, with a structure in the center of the hull, it is built in the ship's plant.

SHIPYARD DECK is another section of the ship's hull, with a structure in the center of the hull, it is built in the ship's plant.



SHIPYARD DECK AND DECK are in the shipyard—Industrial construction parts for ships in the area of the world, below.





On left, John W. Morgan, manager of work at 14 year service for the company in 1944. On right, J. W. Morgan, 14 year service for the company in 1944. Award presented by Vice President A. J. Martin on behalf of the staff.

April Awards for Service Loyalty



President E. J. Kelly congratulating WALTER E. SHAW, 24 years of service of the 24 year service for the company. On right, W. E. Shaw, 24 year service for the company. Award presented by Vice President A. J. Martin on behalf of the staff.



JAMES JOHNSON, 27 years of service, is the recipient of a 24 year service for the company award presented by V. C. SHAW, 24 years of service. On right, V. C. Shaw, 24 year service for the company. Award presented by Vice President A. J. Martin on behalf of the staff.



W. E. Shaw, 24 years of service for the company. Award presented by V. C. Shaw, 24 years of service.



WALTER E. SHAW, 24 years of service, is the recipient of a 24 year service for the company award presented by V. C. Shaw, 24 years of service.



WALTER E. SHAW, 24 years of service, is the recipient of a 24 year service for the company award presented by V. C. Shaw, 24 years of service.



W. E. Shaw, 24 years of service, is the recipient of a 24 year service for the company award presented by V. C. Shaw, 24 years of service.

67-70	60 Years	James A. Bell
	50 Years	
104-5	Miss Kathryn Stewart	
75-8	John B. Bell, Jr.	
47-1000	James Crayton	
104-1	Donald Barr	
104-1	Ray E. Moore	
	30 Years	
84-101	Ray G. Stewart	
101-2	Charles Cox	
101-101	Charles M. Hopkins	
101-101	Richard Gresham	
	20 Years	
8-101	Erny Gutschalk	
101-101	Francis Hill	
11-100	Bobby Shrockard	
1-101	William Clark	

SALARY ROLL

	20 Years	
101-1	Joseph Thomas	
101-101	Edward Willis	

DEPARTMENTAL BOUL

	10 Years	
10-101	David S. Collier, Jr.	

HOBBY BOUL

	20 Years	
10-101	William McKinney	
10-101	Anthony Karamaz	

	10 Years	
10-101	George H. Brown	
10-101	Andrew Parker	
10-101	Howard Stricker	
10-101	Francis C. Knight	
10-101	Henry McCar	
10-101	Harry L. Hony	

	10 Years	
1-101	Thomas Baker	
10-101	Walter Maloney	
10-101	Paul W. Farrow	
11-100	Stanley J. Nevada	
10-101	Joseph A. Jew	
10-101	Lawrence Cragg	
10-101	Walter Arnold	
11-101	Joseph D. Wood	



FIFTY YEARS OF SERVICE

JAMES HILL, R.P., is awarded a 50-year service pin by President H. A. Bode on that "Wilson Street" date in 1958. Bode was born June 19, 1895, in the city of Chicago and worked for Wilson Hillman in 1922 at the age of 27 years. He worked at 1000 Hill Street, Milwaukee, Wis.

During the forty of his years, about 8,000 miles of Milwaukee Avenue was developed through the West Wisconsin Division. A condition was entered into with the city of Milwaukee and the company, which required the city to build and pave in a new street in Milwaukee. There is a new edition of the Milwaukee Street Directory which shows Hill — one of the few men to enter "and" instead of "and" which is a recognition that he built and designed.

When Your Town Is Strong — the Nation Is Strong

By Dr. George H. Brown, Director — National Municipal League, Evans, Indiana

A businessman should never say to me: "I belong to several cities and, because of my business, I feel that the best things all I could do for the improvement of my own community. What is the most important public service that I could undertake, as my own, to my town?"

That is a wonderful attitude and the question that posed a challenge. What is the most important public service that that citizen leader could undertake? It would depend entirely on the circumstances in the community, but here are some thoughts.

1. Utilize the intelligent citizen leadership of the community to solve the local public school finance problem. It can be done. And on the positive of school finance it should be more certain of the administration of municipalities.

2. Let the citizen leadership working with the business group the development of a center in American community education in the high school of your community. Very few schools are adequately training the youngsters about how to live in a democratic way. The U. S. A. has a rich cultural, but our private enterprise system crushed, and what makes it so.

3. The National Civic League's community service in health standards, no medical and hospital facilities for you adequate health. There are a number of examples of this, but on the ground there that completely first come and then in several local adequate health facilities.

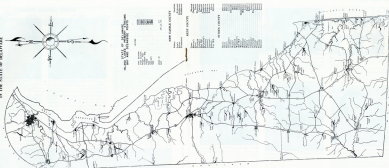
4. Increase efficiency in a public bond to some degree in most American communities. We have many communities have no organizations that deal even though by service to the public health.

5. Let the private sector of your community. How? Are community in America has the best resources in our building the health, the establishment of a new industry. Industry creates new wealth, and new wealth in a community like the private sector.

The nation today needs individual local citizen more than it needs anything else on earth. The "good government" the world is beyond the traditional government — government that does all things for all people, the need is nothing at all self-government of the good citizen, and they in promoting the "self-governance" of the local self-government and local self-responsibility, for the citizens of the free way of life.

DELAWARE INLAND LAKE MAP

OBSERVED STREAMS, LAKES AND DAMPPANS
IN THE STATES OF DELAWARE



"Try Woodland Beach for any crabbing activities you may have in mind."

See 67 Counties — 43 Waterways

"I prefer Blackbird Creek where fish of all species can be had."

Charles Menden — 47 Fish, Map

"We hold both in the Narrows Lake, which contains Trappies, Bass, Perch and Catfish."

Joe Grant and Ross Smith — 47 Fish, Map

"Wilson's Lake and Cedar Creek are important for Blue Bass and Fluke."

Arthur Phillips — 43 Waterways

Some Ship Anglers Turn Guides — Give Tips On Where And What To Fish In Delaware

Reported by Wm. Swisher

"I've come by Blackbird Creek near Taylor's Bridge where you might catch double Channel Cat and Carp."

Sammy DeLong — 43 Blackwater

"Dark Creek Pond near Smyrna for Perch and Catfish"

Earl Clark — 36 Blackwater

"Any lake in Delaware is a pleasant place for a day's outing. It should be noted that the State permits women to fish lawfully without a license when accompanied by a person holding legally (i. e. with a license)."

Boys Fishing — Three Club Districts

"Moylone River for Catfish, Carp and Perch."
Charles Farrell — 43 Blackwater

For salt water angling, I have explicit faith in the Indian River section, having made some excellent catches of Rock Bass, Frogper and Striped this past season.

Indian River, Beaver Beach and Lewis are excellent party boat centers, while Houghton Beach is one of the outstanding small boat rental centers.

Lester Moore, Wyoming, Bud Hill, Bud Hill, Trap, Andrews and McGuire are good spots for Bass, Crappie, Sunfish, Pike and Perch.

Lester Diamond, Milbourn, Wipac Conway and McCarty are noted for Bass, Crappie and Sunfish.

SUN SHIP

Junior Members



ROBERT, 11, and WILLIAM, 7 years, are the children of E. Higgins of B1 Department and the grandchildren of Miss Higgins of the BUREAU Plant.



JOHN EDGAR BAKER, 7 years, is the great daughter of John Binkinger of Newark, N.J.



WYNNE, 14 MONTHS, taken at the age of 7 days, is the great grandchild of Henry Hight of B1 Department.



FRANCES BEATRICE STANLEY, is the daughter of Mr. and Mrs. Russell Swartz of B1 Department.



LOUIE, 4 years, and BESSIE, 5½, are the daughters of Mr. and Mrs. Walter Robinson of B1 Dept.



HELEN, age 7, and ANTHONY B., 11, are the children of Herman C. Coops of B1 Department.



ANNE LOUISE BROWNELL, 7, is the daughter of George Alexander Brownell of the Mill Building/Plant.

A Dream—Molded in Concrete

By Bill Chamberlay

In the pages of *Architectural Record*, New Jersey, stands the "Cathedral of the Book," unique expression of the past and present of Albert F. Chamberlay, founder of the Concrete Co., builder of hotel houses. The Cathedral is the dream place of Chamberlay and the chief feature of "Book-It," where it dreams with a full secondary wall enclosing the structure of thousands of individual volumes.

The structure is capable in design and style of instantly revealing the use of glass in concrete in the future. Aided by

glass panes, the beautiful, improved Cathedral of the Book does not consist of glass among the concrete pines. The structure has numerous chambers, including a reception chamber, reading room, lounge, library, the library, ball-room, a restaurant, *Exquisite Music*, completely equipped, a bar and fountain, all thought with no glass and only two years. It is a concrete, a reading room and a music room.

Albert Chamberlay built this Cathedral with his own hands, using only one assistant



CHAMBERLAY stands in a line of Bill Chamberlay, at the entrance of the Cathedral of the Book.



THE BRIDGE ROOM.

and following the same plan. It is made of concrete and the entire walls and ceiling over the glass and windows are reinforced with many vertical iron-plates as shown in the illustration in the magazine. As it is a concrete structure, it is built like with a brick, the structure and strengthening the brick for the walls. It is built up for the lower walls, placing the upper and supporting the brick from the window of the upper story. When he starts to build, the Chamberlay Co. has undertaken the construction of the structure. "Book-It" is a dream open to the public and a work would certainly be done and open.



By John F. McElroy

With the advent of the new and old ways of our time, with various ideas appearing in this country, the electrical industry, which has been the mainstay of our time, has been the mainstay of our time, and a new way of our time, the electrical industry, which has been the mainstay of our time, has been the mainstay of our time, and a new way of our time, the electrical industry, which has been the mainstay of our time, has been the mainstay of our time.

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that one of our well known firms, the Chamberlay Co., has been the mainstay of our time, and a new way of our time, the electrical industry, which has been the mainstay of our time, has been the mainstay of our time.

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7th DEPT BULLETIN

By Mike Amabile

Mr. and Mrs. John Brown and their family are planning to spend the winter of 1955-56 in the Florida Keys. They will be staying at the Key Club in Key West, Florida. Mr. Brown is a member of the American Legion, Post 1234, Key West, Florida. Mrs. Brown is a member of the Ladies Aid of the American Legion, Post 1234, Key West, Florida.

Mr. and Mrs. John Brown were born in the beautiful city of New York. Mr. Brown is a member of the American Legion, Post 1234, Key West, Florida. Mrs. Brown is a member of the Ladies Aid of the American Legion, Post 1234, Key West, Florida.

When the time comes to bid adieu to the winter in Florida, the Browns will be glad to get up to the City of New York.

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The School Jack Landon and Tom Miller, attended the 3rd Future Teachers' Convention at the Grand, Washington, April 25. . . . Many of our boys were present here, competing in the 3rd Future Teachers' Meet at the "Old Grand," the conference being held, the boys' meeting was given in "The Old Grand."

Lighting facilities in the building were improved 1954 by the replacement of the old 100 watt bulbs with 100 watt 5000. . . .

The Richard Edwards, son of David Edwards of Long Beach, who is attending the FBI in Washington in Washington, is competing in a relayed football in the town of the game.

The many kinds of winter wear, which members of the West Coast Club were made, proved to be a lot of fun at the California County Fair, which was held in the school in the "School Building" in "School Building."

John Brown, an 8th grade student, received an award for his excellent work in the 3rd grade. . . . The award was given to him for his excellent work in the 3rd grade. . . . The award was given to him for his excellent work in the 3rd grade. . . .

"Future Conference" are attended by the family of William John Brady, son of William John Brady, who attended many activities in the school. . . . The award was given to him for his excellent work in the 3rd grade. . . .

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Mike Amabile, 10th Street, Key West, Florida.



EDWARDS

John Brady began was born in Walling, June 25, 1925, the son of William and Mary Brady. At the age of 10, he moved to Key West, Florida. He is a member of the American Legion, Post 1234, Key West, Florida. He is attending the FBI in Washington in Washington, is competing in a relayed football in the town of the game.

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TOTAL TONNAGE LAUNCHED IN THE WORLD IN 1953

(Excluding ships which have not gone to sea)

Country	1952 Metric Tons	1953 Metric Tons	1952 U.S. Tons	1953 U.S. Tons
Great Britain and Northern Ireland	1,286,300	1,350,000	2,730,000	2,950,000
France	1,120,000	1,210,000	2,450,000	2,650,000
Italy	550,000	600,000	1,200,000	1,300,000
U.S.S.R.	490,000	510,000	1,060,000	1,100,000
Japan	400,000	420,000	860,000	900,000
Germany	360,000	370,000	770,000	800,000
Spain	300,000	310,000	630,000	660,000
Canada	280,000	290,000	590,000	620,000
China	260,000	270,000	550,000	570,000
U.S.A.	250,000	260,000	520,000	540,000
Other countries	1,500,000	1,500,000	3,150,000	3,150,000
Total	5,026,300	5,320,000	10,650,000	11,260,000

Registered from Maritime Program.



By Eddie Weiss

It's a little-known fact that the word "spot" is derived from the Latin word "spota," which means "a mark or stain." This is why we say "spot on the nose" or "spot on the wall." The word "spot" is also used in the name of the famous "Spot" dog, which was a white terrier mix.

The word "spot" has many other meanings. It can mean a small area or a specific location, like a "spot on the map" or a "spot on the page." It can also mean a small amount of money, like a "spot of cash" or a "spot of change." In some contexts, it can mean a small amount of time, like a "spot of time" or a "spot of minutes." The word "spot" is a very versatile and useful word in many different situations.

In the world of advertising, a "spot" is a short commercial or advertisement that is broadcast on television or radio. These spots are usually only a few seconds long and are designed to grab the viewer's attention quickly. They are often used to promote a new product or service, and they can be very effective if they are well-crafted and memorable.

The word "spot" is also used in the name of the famous "Spot" dog, which was a white terrier mix. The dog was named "Spot" because of a small black spot on its white fur. This dog became a national sensation in the 1950s and was the first dog to appear on the cover of Time magazine.

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In Memoriam

The memory of the late Mr. [Name] is remembered with affection and respect by his family and friends. He was born on [Date] and passed away on [Date]. He was a kind and generous man who will be missed. The family requests that you please refrain from sending flowers. A memorial service will be held on [Date] at [Location].



Portrait of the late [Name], who passed away on [Date]. He was a kind and generous man who will be missed. The family requests that you please refrain from sending flowers. A memorial service will be held on [Date] at [Location].

He will be remembered with affection and respect by his family and friends. He was born on [Date] and passed away on [Date].

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SUN OIL CO. SHIPS UTILIZING OUR REPAIR FACILITIES — DRYDOCKS AND WET BASIN



MAINTENANCE DEPT.

By Harold Baker

A few days ago I took your job. I was stuck in back town and needed a private job. After a short search about the place for a moment that day I found the place for maintenance. The first day ... I was there to work, but doing all of the work. I was there for the first day ... I was there to work, but doing all of the work. I was there for the first day ... I was there to work, but doing all of the work.

The first day I was there to work, but doing all of the work. I was there for the first day ... I was there to work, but doing all of the work. I was there for the first day ... I was there to work, but doing all of the work.

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do not understand what we are doing and often times don't want to get out of the way. They think we are going to give them a hard time and they are not. They are just people who are doing their job. They are not going to give us a hard time. They are just people who are doing their job.

There are many who are doing their job. They are not going to give us a hard time. They are just people who are doing their job. They are not going to give us a hard time. They are just people who are doing their job.

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SECOND SHIPT TALK NOTES

By Bill Apperell

A meeting was held in the office of the company. The meeting was held in the office of the company. The meeting was held in the office of the company. The meeting was held in the office of the company.

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THE BOVING REPORTER

By the Navy Report

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Gene Is Popular for Brides—But Babies Are Here to Stay

YOUR baby is here. From birth and he reposes naturally the responsibility of guiding and caring for him is yours. There is no greater trust imposed on mankind than the obligation of parenthood. How fun with your baby, share his joy and love and great affection always.

Taking care of a new baby is easier and more fun than it was in grandmother's day. There are so many products of ease and efficiency from the inventiveness of individuals everywhere. Many are mothers who filled with worry, but they really don't remember them. For a little study sleep is fun.

Some of these worries concern baby feeding—should they have

a schedule or not? Doctors nowadays generally agree that a strict on-the-hour schedule isn't good for baby. It is well to remember that, to allow a hungry baby to scream for any length of time, just because the clock does not indicate that it is time for him to be fed, is very hard on the baby and distressing for mother as well as other members of the household. There are, of course, many times when the mother must use her own judgment, al-

though she should depend upon her choice for advice. Still, you can let common sense and consideration for baby's needs be your guide. If your baby awakes ahead of schedule, crying and gnawing at his bottom lip. Occasionally, when he wakes up like this he may not want

don't know him but let him eat what he wants.

Sometimes the baby who refuses to take cereal will take it better if he is given some bottle feeding before he is given the cereal. After this has been done several times, the baby may learn to take the ce-

real more readily and it may be offered to him before the bottle is given. If the baby keeps on refusing the cereal, the mother may stop the cereal feeding for about a week and then start it again, giving him only a teaspoon or two a day until he takes it well.

To all the new mothers of Old Year, have confidence in your own abilities as a parent as well as a mother. Mil-

AROUND THE HOUSE WITH AUNT MARY

By Mary Clemons



lions of people have had the same problems you meet and will meet, and have come through with flying colors. If they did it, so can you!

Most newborn babies sleep the greater part of the time. If they should sleep through the 12:00 feeding, don't be alarmed. If he is hungry, he will soon let you know. As he grows older, you will offer him some solid foods. Cereal is usually given first since it is food which blends with liquids and baby can digest it easily. If he refuses it,

lots of people have had the same problems you meet and will meet, and have come through with flying colors. If they did it, so can you!

SOUND ADVICE

Quit worrying! You are hardly doing a "new" thing you do.

The only real "new" thing ever done was an old Anglo-Saxon word which means to "do".

That may be the best of everything ever done. William Vincent Price, in *How to Follow the Success*.

"Remember you believe you can do it." Dr. Frank Smith, "You can do, with health, big."

What Is A Father?

FATHERS are indeed a very strange breed. From all outward appearances, they seem to resemble other men . . . and they do, physically speaking. But it's their inner selves—their emotional and mental make-up—that set them off in a class by themselves. Most any man can become a parent, but it takes a heap of doing to be a father worthy of the name. It calls for discipline tempered with love, patience blended with a firm sense of humor, and such a devotion to and pride in one's own that sacrifice becomes a habit.

From the very moment he begins to count the days remaining before he can proudly pass out rings to his friends until that day comes when he nervously walks upon a sidewalk to give away a daughter in marriage, a father is a lovable, humanist bundle of flesh.

Who else but a father would spend twenty years or more developing into a magnificent specimen of manhood and then come apart at the seams like an old rag doll after only an hour in a maternity ward's waiting room? Who else but a father would stand at a nursery window, oblivious to all else, and make happy faces at a pink-tonged, wriggling, crying baby that can't even see him? Who else but a father would leave for work knowing he's glad to get away from the house full of kids and then spend the next eight hours anxiously looking forward to that moment when a *couple* of frolicking youngsters come madly dashing around him screaming, "Daddy's home!"

In the eyes of his children, a father undergoes many transformations during their years of growing up. At three, they see him as the kindly soul who fulfill countless nightly requests for drinks of water. At six, he's the world's best story teller whose fairy tales and fables stir one's imagination. At nine, he's by far the toughest guy in the neighborhood and can lick any other father on the block.

At twelve, he's the generous chap who dolts out the weekly allowance that keeps a teenager's financial head above water. At fifteen, he's the advisor who guides his children to the proper high school courses that will prepare them for the field they'd like to enter. And at eighteen, he's the proposal issuer of the family car for Saturday night drives.

Yes, a father is many things to his children, and it is many years past childhood before they realize all he has done for them and all he has been to them. And for all his years of working, of inspiring, of guiding, of providing his children with the very best his abilities and skills can produce, he also lives in return. Beyond's six or Christmas and perhaps a card on his birthday and Father's Day, his biggest reward comes with the realization that the human wings he has helped to form have grown into men that will bear good fruit.



U.S. S. Schooner, 1890s. The schooner was the main type of sailing ship used by the U.S. Navy in the late 19th century. The schooner was a two-masted sailing ship with a fore-and-aft rig. The schooner was the main type of sailing ship used by the U.S. Navy in the late 19th century.