

## SECRET OF GERMAN'S SOLVED

### Process of Manufacturing Products from Nitrogen in Air Yields to Experiment

Dr. William Henry Nichols, a noted manufacturing chemist and chairman of the Board of Allied Chemical and Dye Corporation, announced at the sixty second meeting of the American Chemical Society in this city that his company, through the ingenuity of American chemists, had duplicated one of the dearest secrets of the Germans—that of manufacturing nitrogen products from the nitrogen of the air.

The chemist sent out the announcement that the new method was being operated on an industrial scale and that the country could be virtually independent of the Chilean nitrates formerly indispensable in the manufacture of explosives, dyestuffs and fertilizer. The Germans used a similar process on a vast scale during the war.

Mr. Nichols formerly was Chairman of the Board of the General Chemical Company, but became chairman of the Board of the Allied Dye and Chemical Company in 1920, when four of the largest chemical companies in the United States merged with the General Chemical. The new organization has plants in many cities of the East, with a capital of about \$175,000,000.

"This process is the extraordinary 'fixation' of atmospheric nitrogen and acid 'synthetic' production of nitric acid and nitrates generally which have so greatly interested chemists and chemical manufacturers during the last few years," said the announcement. "Although Germany succeeded in doing it during the war—indeed, it is said that without it she could not have continued the war for six months—the accomplishment is an entirely new one outside of Europe, and marks an important step in the progress of the American chemical industry."

After Francis P. Garvan, president of the Chemical Foundation, Inc., had said that the German chemical industry was making every effort to regain domination in world markets and in ten years would have creative forces ready for another war, the delegates at Columbia University adopted resolutions calling for the "chemical disarmament of Germany and a selective embargo on importation of synthetic organic materials. The resolutions read in part:

"Resolved, first, that we urge upon the American delegates to the disarmament conferences most serious consideration of the broad question

of chemical armament as effected by the development and maintenance of the chemical industries in the several nations:

"Second, that we urge upon Congress the necessity of including in the permanent tariff bill a selective embargo for a limited period against importations of synthetic organic chemicals; and we express the confident hope that in view of the important bearing of such action on economic development and on national defense, our representatives, regardless of political affiliations, will support this legislation."

Mr. Garvan said that Germany snatched at the coal tar discoveries of the Englishman, William Henry Perkin, and built up their cast dye industry and, combining science, industry and militarism, reached for world domination. By 1913, he said, the Germans controlled 95 per cent of the organic chemistry of the world.

"When the war began in 1914, 84,000,000,000 of annual industry in this country, to say nothing of our physicians and hospitals, were dependent upon the will of the German emperor, as exercised through six importing firms and about four assembling plants," he said. "At the Kaiser's nod he summoned their assistance."

"Bernstorff was able to cable his country that they had in their possession the weapon by which 4,000,000 men in this country could be instantly thrown out of work, as an argument why America should attempt to force England to lift the blockade. Germany was able to shut off the supply of salvarsan and luminal from this country."

"The war is over, but the situation is the same. This was an industrial war brought on by industrial Germany to capture the markets of the world. Her ambitions are the same today as they were in 1914. Her methods are the same in peace and war."

**The Quinine That Does Not Affect the Head**  
Because of its tonic and laxative effect, LAXATIVE BROMO QUININE is better than ordinary quinine and does not cause nervousness or ringing in head. Remember the full name or logo for the nature of L. W. GROVE'S.

**The Art of Life.**  
The art of life is to keep step with the celestial orchestra that beats the measure of our career and gives the cue for our exits and our entrances. Why should we willingly miss anything, or be angry with folly, or in despair at any misadventure? In this world there should be none but gentle tears and fluttering lip-tips loves. It is a great carnival, and amongst these lights and shadows of comedy, these roses and vices of the playhouse, there is no abiding.—G. Santayana, in the Dial.

## PLANT FALL OATS EARLY

Clemson College.—Best results are secured with fall oats when they are planted early. When seeded reasonably early oats make a better growth, giving more grazing for livestock if desired for pasture, more protection to the soil as a cover crop, and make a better yield in the spring. For the Piedmont section of South Carolina the latter part of September or first of October is the best time; for the coastal plains sections October is the best time according to Prof. C. P. Blackwell agronomist.

If oats are planted for seed production they should be seeded alone, but if for cover crop or for hay, hairy vetch should be seeded with them. The hairy vetch not only improves the quality of the hay but also serves as a soil improving agent because it takes nitrogen from the air and fixes it in the soil in a usable form.

**Methods of Seeding**  
The most common practice is to seed oats in corn and cotton middles with a three-tube drill, or to sow broadcast and plow in with a cultivator or sweep.

In section where cotton does not make a rank growth and where it matures early, it is a good practice to plow under the cotton stalks as soon as the cotton is all out. This should be done with a large plow and with a weed hook or weed chain, to help cover the plants completely. This will help materially also in the control of the boll weevil. After the land has been plowed, the oats may be seeded broadcast and harrowed in, or they may be seeded with a disc drill.

Oats are also seeded after corn frequently, and this is a good practice and may be done successfully if velvet beans are not grown in the corn. If velvet beans are grown in the corn, it will be necessary either to graze them off before planting oats or to chop them up with a heavy disc and plow them under. This will of necessity make the oat seeding later.

The best varieties of oats to plant are the Fulghum and the Applier, and the best rate of seeding is about two bushels per acre.

**Flies Cared in 6 to 14 Days**  
Laxative Bromo Quinine if PAZO OINTMENT for itching, Burns, Eruptions of Pruritic Skin, itchy relief, Relief, etc., at your own risk, at the price of 25¢ per box.

**All-Day Football Match.**  
An annual event in the town of Ashbourne, Eng., is a "round-the-town" football match, which takes place on Shrove Tuesday. The number of players is unlimited and the goals are located in a stream four miles apart. The game usually starts early in the day and lasts well into the night.

**Rub-My-Tism** is a powerful antiseptic. Cures infected cuts, old sores, etc.—adv.

## FINE CORN IN UNION COUNTY

Clemson College.—The average yield of corn in Union County is eleven bushels per acre, but this yield is no measure of the productive power of Union County soils, says County Agent W. D. Wood when they are properly handled. Illustrating this fact is the experience of M. Russel Jeter of Santuc, who has the proof now growing in his fields. Last spring Mr. Jeter plowed under a crop of velvet beans and ten tons of barnyard manure on a naturally unproductive sandy soil. He planted the land to corn, using as commercial fertilizer only 150 pounds per acre of acid phosphate. Competent judges say that this corn will yield 40 to 50 bushels per acre.

The experience of Mr. Jeter and other progressive farmers is doing much to make the mass of farmers realize that their lands can be and should be made much more productive by proper soil building methods.

**Bricklayers on Battleships.**  
One would scarcely expect to find bricklayers on a battleship. Nevertheless several are home on the boats. They build walls—in the throats of the great furnaces, where the constant succession of terrific heat burns away the firebricks like so much charcoal.

**Truly "Devil's Sonata"**  
Probably the most remarkable of the studies of dream-inspiration is that of Beethoven's world-famous "Devil's Sonata." "One night I dreamt that I met the devil," said the composer. "I handed my violin to him and asked him to play a solo on it. He took the instrument and began to play music of such wonderful, unearthly beauty that I was entranced. When the music ceased I awoke, jumped out of bed, and reproduced it as accurately as I could."

**Powerful X-Ray.**  
A French scientist, chief of the bureau of radiography for the Paris hospitals, has demonstrated that an X-ray apparatus can photograph subjects through a stone wall more than 25 feet distant from the source of the rays. He has obtained clear photographs of metallic objects, the rays filtering through a marble plate more than an inch thick, 12 inches of oak, four inches of plaster and a sheet of lead one-eighth of an inch thick.

**Character Greatest Asset.**  
Character is the best collateral, said the late J. P. Morgan. Character has been the best asset the American people have possessed. To maintain character should be their chief aim and purpose, and to this end they should devote all effort.

## PEOPLE OF OUR TOWN

How is it that a bee can fly all over a town, and yet invariably come home to the hive in the evening? There can be little doubt so intelligent an insect as this has a long memory and a keen eye for landmarks. This is testified to by the fact that almost all bees fly by day, whereas such creatures as moths, of no fixed home or occupation, fly in the darkness. A bee would be lost at midnight because it could not recognize its surroundings.



The Loafer hasn't done a lick of work since the famous "Work or Fight" order, when he shouldered a dinner-bucket and rattled to the Shipyard. The Loafer was just naturally born tired and he's still holding his own. Besides that, he makes everybody else tired!

**To Cure a Cold in One Day**  
Take LAXATIVE BROMO QUININE (Tablets). It stops the Cough and Headache and works off the cold. E. W. GROVE'S signature on each box. 30¢

**Portable Grinder.**  
A portable electric grinder for the machine shop, designed to be moved over the work, has the power of one-eighth to one-half horsepower placed above the work out of the operator's way. The spindle is bored with a five-sixteenth-inch hole to receive an adjustable shaft for interior grinding and the use of interchangeable grinding wheels adapts the little machine to a wide range of work.

## MAY RUN FOR GOVERNOR

### Camden Man is Seriously Considering Being a Candidate.

While in the city Monday Judge Lendel L. Smith stated that he had been the recipient of numerous requests from friends that he enter the race for governor and further stated that he was considering running but was not in a position to make a definite statement at this time as he had not fully made up his mind.

Judge Smith stated that when it was called to his attention that several weeks ago a news dispatch credited him with saying he would not be in the race that he had made no such statement. Judge Smith has many friends in the city and community who look favorably on the possibility of his running for governor.

Judge Smith stopped over here while returning from a business trip to Atlanta. He talked before the meeting of the Community Council of Augusta Sunday afternoon.—Orangeburg Times-Democrat.

**Wives by the Bundie.**  
Some Americans of a steamer which stopped at a New Guinea port were visited by several natives. The party included a child and his retinue accompanied by the chief's son. The visiting dignitary was very much interested in some bright hatchets on the deck and expressed his desire to own one. As a joke he was offered several in exchange for the boy, but he refused to entertain the proposition and left the ship. Shortly after he returned, accompanied by six women which he offered for one hatchet.

**Not Negro Songs.**  
Most people fancy in a vague way that Stephen Foster's songs are negro or were inspired by the negro music. But "Old Folks at Home" and the other Foster melodies are about as unlike negro music as anything could possibly be. That their words are often in negro dialect and express negro sentiments is simply a historic accident due to the fact that in Foster's day the negro minstrels, real or "cooked," were the only means of bringing music before the public.

**Like Salamanders.**  
Chinese stokers seem to be immune to the fierce heat of the fire-pan on the ocean steamships, and can stand temperatures that would speedily prostrate white men.

# MARLOW LEADS

## OTHERS FOLLOW.

### Crowds Swarm Marlow's Two Stores

### 1169 Customers Visited Us Last Week.

We have bought our entire stock of Dry Goods, Underware, Clothing and Shoes for the Fall trade just before the 20% advance came on as a result of 50% advance in Cotton. We have 5,000 yards of LL Sheeting that we will sell 10 yards for 89c.

WE ALSO HAVE ON SALE FOR FRIDAY AND SATURDAY

1 Lot Boys' Dress Shirts, with collars attached at 48c.

1 Lot Dress Gingham. Sold elsewhere 15c, our price 10c the yard.

1 Lot Men's best quality, Indigo Blue, full cut, double-stitched, curved armholes. \$1.25 value. Friday and Saturday 69c.

500 Men's white Handkerchiefs. 10c value. Friday and Saturday at 4c.

1 Lot Men's Soft Finish Percale Dress Shirts. Can't be matched for less than \$1.25. To close at 79c.

1 Lot Men's Long Sleeve Balbrigan Undershirts. 75c value. Friday and Saturday 39c.

## DOWN TO EARTH AGAIN.

We are happy indeed to be able to point with pride to the low price level that we are presenting to you for Friday and Saturday. During the abnormal period of soaring prices we made every effort to protect our customers against the rising market. Likewise at the first signs of reaction our first thought was to pass to our customers the advantages of lower prices.

We therefore swallowed big losses and cleared our stocks, replacing them with new Fall and Winter goods bought just a few days before the market started up. So that we quote here the biggest bargains you've ever seen in Conway. Let me warn you, take liberal advantage of these prices.

WE GUARANTEE EVERYTHING WE SELL AS REPRESENTED.

Follow the Crowd to

# J. M. MARLOW'S

Conway, S. C.