MAKING LIQUID ATR.

A SCIENTIST EXPLAINS HIS CHEM-ICAL DISCOVERIES.

Professor Dewar's Experiments May Prove to Be the Greatest Investigations of the Century-Powerful Gases Reduced to a Fluid State.

The Pall Mall Budget of London published an interview with Professor Ja acs Dewar on what is represented as being "a great scientific discovery," that of making liquid air. Increductory to the interview the article says field while Dipnefactions of permanent greated in a market wanted to prove two most cold market one of the most important, chemical dis covories of the contary." It is hold by scientists that any gas may be liquefic if the pressure and dd muy be the and a vessel of summing strongth to withstand the great pressures.

Of the gases that may be liquefied carbonic neid gas has been found to be she cheapest and readlect made, and while it has been known for many years that it could be liquified it has generally been so prepared only in small quantities for scientific uses. The use of compressed air as a motive power has presented many difficulties, the principal one being its bulkiness; hence large vessels must be used in order to get a sufficient amount of motive power, and it is hard to make these strong enough and at the same time light in weight.

As a motive power it is used at a pressure of from 600 to 900 pounds. But if Professor Dewar has discovered an economical and ready way of liquefying it. it will tend to solve a problem in carrying a motive power in storage bulk that will be of great benefit to the students in this line. In the talk with the representative of The Pull Mall Budget, he says:

"Well, I don't think there's very much to say, because Eve told all I have to tell about the matter in my two lectures, but I do believe there's a great deal more to be learned about the subject. You at pressal we've got these gases down to 210 degrees below zero, and the lowest possible temperature is 274 degrees be-low, - If we could get some 20 degrees lower down, we might liquefy hydrogen. Hydrogen has never been liquefied in a free state vel.

"Now, it's a strange thing that air can be made into a homogeneous fluid. You would think, as oxygen can be liquefied at --182 degrees and nitrogen not until -192 degrees, that as you made the air colder and colder the oxygen woull be-come liquid first and then the nitrogen. I saw that prediction made in a standard work only the other day. Now, I dare say, you will ask why the oxygen don't come down first."

Stepping quickly back to the desk Professor Dewar took up a pencil and be ran to draw with rapid strokes on the back of a letter. The diagram when it was finished looked more like the law of d;minishing returns turned up on one side than anything else that I am acquainted While he drew he rapidly exwith. plained how the influence of atmospheric pressure on the different volumes of mitrogen and oxygen in air makes them boil almost exactly at the same temperature. As he made each point he frowned a little, drawing up the wrinkles between his eyes, "Now, that, in the old theological days, would have been taken as a providential dispensation. The strange thing is that when liquid air evaporates again they are under the same pressure, and the nitrogen goes off first, as you would expect.

"Ozone can be liquefied by acting on the vapor given off from liquid oxygen by electricity. It is a splendid dark blue color, almost as dark as indigo. Ozone has not the same molecule as oxygen, and the electricity breaks up three two into two threes. That is the secret of it. The queer thing about liquid ozone is handr i explodes. You wouldn't think it, but it is stronger than dynamite as an explo-It's simply because the ozone goes back into the molecular form of oxygen so fast. The force that comes from the electricity makes it explode without meeting with any outside body. It's a tremendous explosive. "We have discovered that liquid oxygen acts as a lens. It is so transparent to heat, so to speak, that even at 183 degrees below zero you can focus heat on it from one side and light a piece of paper by it on the other. You know that's just what happens in the earth. The sun's heat gets focussed on to the earth through the lens formed by the vacuum of space, which is so cold that it basn't any temperature at all-absolutely zero. Professor Dewar gave a lecture on "Liquid Air" at the Royal institution in the presence of the Prince of Wales, the Duke of York, Lord Salisbury an 1 other notable persons. He showed that by the withdrawal of heat the air is converted into a liquid with total loss of chemical properties, incapable of supporting combustion, or of entering into combination even with phosphorus and sodium, while certain physical properties remain. The conversion of oxygen into ozone was also described, and the retention by oxygen of its peculiar optical properties at the lowest temperature was demonstrated by the very dense and well defined bands of its spectrum. In ordinary conditions oxygen shows no unreasonable thermal absorption, but at low temperature its thermal absorptive power becomes mani-

MEN WHOM WOMEN ADORE.

The Delicate and Refined Type of Actors nd Singers Get the Smile

The excess of devotion that Paderewski receives from enthusiastic women calls attention to the fact that it is always the more delicate and refined type of manhood that inspires this sort of hysterical idolatry among the women. tere never was a more superb example of handsome manliness than that of unrd de Reszlie, the French tenor,

but he was here and is in his own country but vaguely admired by women, and with none of the mad, raphurons cestasy and adoration of which Alvary, the Ger-

man tenor, was the ungracious recipient. Alvary was small and slight in stature. His shynd a was almost painful. His devotion to his German fran and numerous olive branches hopelessly promic and unromantic. Ent the women stood about the stage door in groups for a glimpse of their divinity, and squandered their entire allowance on opera tickets when he sang.

Kyrle Bellow was in his day another victim of woman's devotion. They found out where the effeminate Marc Antony had his hair chipped, and bribed the barber into saving bits of the sacred fleece for them to wear in lockets and watches. How that barber ever reconciled things with his own conscience how he will settle it with the recording angel is a mystery, for not even the Sutherland sisters could have supplied all the locks that were surreptitiously

dealt out to the fair devotees for a time Pierre Loti, in France, now one of the Immortals, is another man of the marked feminine characteristics which appeal to the enthusiasm of women and claim their championship. It was on shipboard that this writer, whose real name is Jean Viand, got the name of Loti, which is Japanese for "violet," and it was as Vio let that he was known along the grace less, but discriminating subalterns. Mer call his writing feminine in discontant and cloying in style, and suy that he chooses his words have boubons. But the strong and brilliant Mme, Adam and her followers, in their enthusiasm for Lot! at the time of his election to the academy, opposed a man of distinguished lar, eness of thought and marked genius.

Dignity and elegance are both winning cards for gaining popularity with wom-en. It is to the former that Walter Damrosch previous to his marriage gained his following of fashionable women, and it is to the latter quality, as well as his dramatic talent, that Riddle is indebted for the admiration of the women who listen to his readings. Perhaps it is the unexpected strength and fire in the guise of an exquisite that charms. The odd thing about it is that the very womer who rave over these types of men are wedded to husbands of the practical ro tund school: men with plenty of devel opment in the aldermanic region; mer whose wedding vests won't meet by several inches, and whose bald spots are fast growing glossy; men who coulda's understand their rosettes any better than Amelic Rives' unfortunate hero, and whe laugh at the little women and their ray ings over long haired hocs, confident of their own charm and liking the women all the better for their pretty enthusiasms .- New York Sun.

Force of Imagination.

It was in Paris. A lot of high rollers were talking about tobacco. Howell Osborne was there, Wilkie, the retired dentist, and several other fellows who had hard work to spend their income. Wilkie, who didn't smoke, offered to bet a dinner that he could fool another member of the crowd on a cigar. Man swore he couldn't. He'd been cussing a blue streak because he couldn't get Per-fectos on account of the government monopoly. So they blindfolded him, and Wilkie lighted cigar after cigar and handed them to him. "Pooh," he would say, "another Parisian failure." Vilkie lighted a cigar. By and by which he had obtained with some mys-tery, extinguished the flame with a quick stroke of his penknife and handed it over. The cigar was still warm. The expert took several puffs and threw down the cigar, exclaiming, "French, and mighty bad!"

Drummers In King Henry's Time King Henry V had a band which discoursed sweet music during his expedition to Harfleur, each member being recompensed for his services with the sum of 12 pence per diem. When the citizens of London were mustered in the thirty-first year of the reign of Henry VIII, we hear that "before every standard was appointed one dromslade at the least." Each company of 100 men at this time possessed a couple of drummers.- All the Year Round.

A Carlous Naval Law,

A curious discovery was some years ago made among the archives at South ampton of , box containing the original taxal laws of that port accurdy in the four-result century. One of them was that if the undority of the sailors of a vessel on the point of sailing were of the opinion that the wind was unfavorable, and the vessel was wrecked afterward, the captain was responsible for the value of the goods lost.—St. Louis Republic,

An Expression From a Five-year-old.

Some of our present day children are startling occasionally. A little girl of 5 years recently used the expression "postmorten judgment." Upon her brother's questioning her and insisting that she should define it, she said, "Well, if you do a thing and then afterward wish you had done another thing, that's postmor-tem judgment."-New York Times,

A Well Filled Head.

"Chappie know anything? Bah! His head is emply and always has been." "You wrong him. He had two eyes, a set of teeth and a cane handle in it last time I saw him."-Harper's Bazar. It All Depends.

"How long," says a contemporary, can one live without air?"

It depends on the air. Most people could live a long time without some of the airs which have been popular during the has twolvemonth.-Exchange.

No Reference to Affusion

She-You are always sneering at wom-en who talk too much. Are you hitting

He-Not at all. There are lots of women besides you who talk too much. -Texas Siftings.

An Unsuccessful Persistent Suitor, One of the most persistent suitors who ever proposed and was rejected was the eccentric Craden, compiler of the con-cordance to the Bible. Mics Abney, who had inherited a large fortune, was the subject of his attentions. For months and months he pestered her with calls and letters. When she left home, he had papers printed, which he distributed in various places of worship, asking the congregation to pray for her safe return. and when she returned home he issued others asking the worshipers to return thanks. Miss Abney never became Mrs. Cruden.-Brandon Bucksaw.

Sweet Potato Flour.

A St. Louis woman has perfected a patent to cover the process of making "sweet potato flour." The processes are those peeling the potato and kiln drying the peel so that it will keep for any length of time as a food for live stock; of drying and grinding the potato into three distinct grades of flour, and also of slicing and drying it in the form of "Saratoga ϵ ps."—New York Telegram.

For Scrotula

"After suffering for about twenty-five years from scrofulous sores on the legs and arms, trying various medical courses without benefit, I began to use Ayer's Sarsaparilla, and a wouderful cure was the result. Five hottles sufficed to re-store me to health."-Boulfacia Lopez, 27 F. commerce st., San Antonio, Texas.

Catarrh



At Bolger Bros.' Mammoth Clothing Store an elegant assortment of

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At prices that will astonish you. The invariable response to our newspaper announcements is always gratifying as is evinced by the crowds which come to us whenever the announcements are made of the arrival of new goods. Our spring line of

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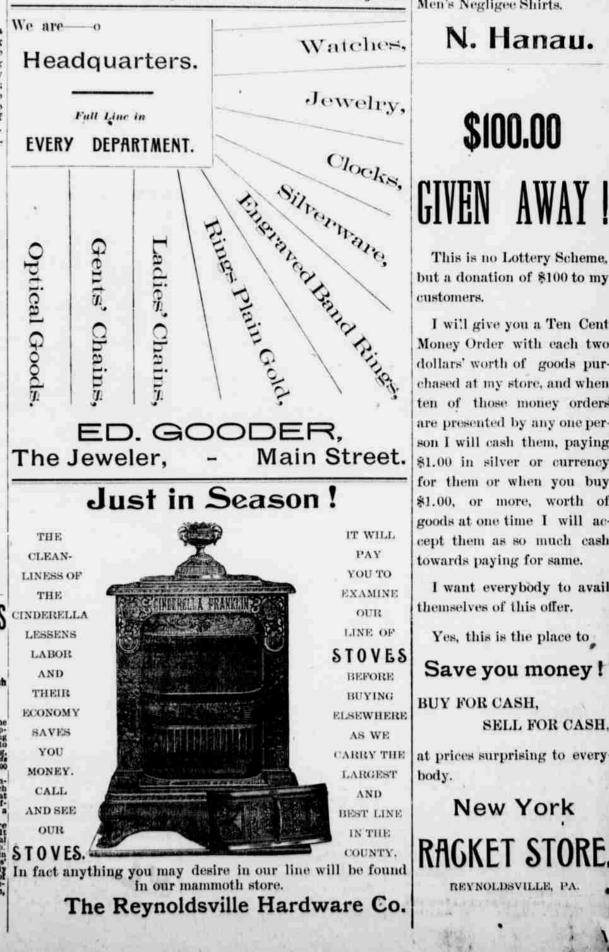
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Though quality is the best.

We make the statement for the benefit of those who are not our customers, and so may not know it: OUR PRICES MAKE CUSTOMERS OF ALL WHO COMPL.

A full line of

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The Best and Cheapest ever brought to Reynoldsville.

A full line of Henrietta at 25c. in all shades, 40c., 50c., and \$1.00.

Silk warp Henriettas. Summer Silks for 50c. per vard.

Ladies Coats and Capes the finest and cheapest in town.

A nice line of Children's Jackets from 2 to 12 years,

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Men's suits the best and cheapest you ever saw for the money. We don't say so except we can convince you.

Men's Suits, four button utaway from 10, 12 to \$15, worth 14, 16 and \$18.

Men's straight cut worsted for 10 to 12.50, worth 16, to \$18.

Children's Suits 2.75, are worth 3.50 to \$5.00.

A fine line of Boys' and Men's Negligee Shirts.





This is no Lottery Scheme, but a donation of \$100 to my

Thwarting an Enemy.

Sardanapalus, the luxurious oriental monarch, anding himself hard press by his enemies, gathered his guards, his wives, concubines and children together, with all his treasures, and set fire to the building, thus thwarting the hope his foes entertained of taking him alive.— St. Louis Globe-Democrat.

May Be Worse

"What is more awful to contemplate," said a lecturer, glaring about him, "than the relentless power of the maelstrom?" And a happecked looking man in the rear of the building softly replied, "Fe-malestrom."—Exchange,

Then they set up a howl, for the cigar was a smuggled Perfecto .- Paris Letter.

Breaking a Wishbone.

The divining rod is a feature in all early mythology, especially so among the Hindoos. As the forked branch of a tree it indicated in various parts of Europe Asia and Africa where treasures were hidden or where water might be readily found. From the forked branch of a tree it was but a step to the forked clavicle of a bird, and this bone was soon invested with the power of securing the gratification of the wishes of those who in breaking it retained the forked part, for it was the fork that was possessed of mysic power.-New York Telegram.

The Usual Practice.

A Detroit lawyer was in Washington recently and among the sights took in the supreme court of the United States. "What do you think of it?" asked a

friend in the evening. "Well, I sat there and listened awhile, and though I am ashamed to confess it

went to sleep. "Oh, that's all right," said his friend

encouragingly; "everybody does that."-Detroit Free Press.

When Washington Was Inaugurated.

On the occasion of Washington's second inaugural, many of the members of congress were desirous of waiting on him in testimony of respect as chief magis-trate. A motion was made to adjourn for half an hour for the purpose, which, however, met with great opposition as a species of homage—"it was setting up an idol dangerous to liberty; it had a bias to-ward monarchy."—Philadelphia Ledger.

Some Satisfaction

Stranger-Suppose a policeman ex-ceeds his authority and assaults repu-table citizens, what redress have you? Mr. Gotham-Well, those of us who get killed have the privilege of swearing at him through a spiritual medium.-New York Weekly.

"My daughter was afflicted for nearly a year with datarth. The physicians be-ing inside to help her, my pastor recom-mended Ayer's Sarsaparilla. I followed his advice. Three months of regular treatment with Ayer's Sarsaparilla and Three months of regular Ayer's Pills completely restored my daughter's health."--Mrs. Louise Rielle, Little Canada, Ware, Mass.

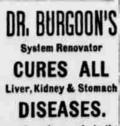
Rheumatism

"For several years, I was traubled with inflammatery friendmittin, being so had at times as to be entirely helpless. For the test two years, whenever I felt the effects of the disease. I begin to take Ayar's Strengerfile, and have not had a spell for a long time."—E. T. Hansbrough, Elk Run, Va.

For all blood diseases, the bost remody is



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