

Bargains Tomorrow At BROWN'S

RUSH SPECIALS FOR THE LAST DAY OF THE MONTH

Staple Department	
25c. yd. Bleached Cotton,	Sale 20c. yd.
30c. yd. Fine White Cotton,	Sale 25c. yd.
35c. yd. Longcloth,	Sale 27c. yd.
20c. yd. Unbleached Cotton,	Sale 16c. yd.
25c. yd. Unbleached Cotton,	Sale 18c. yd.
45c. yd. 35-inch White Flannelette,	Sale 35c. yd.
69c. Bleached Sheeting,	Sale 55c. yd.
85c. yd. Bleached Sheeting,	Sale 65c. yd.
35c. yd. Scotch Ginghams,	Sale 29c. yd.
85c. Boys' Heavy Fleece Underwear,	69c. each
\$1.50 Men's Penman's Fleece Underwear,	\$1.00 each
\$2.50 Stanfield's Green Label Underwear,	\$1.75 each
\$2.25 Men's Working Shirts,	Sale \$1.50 each
\$1.75 Men's Working Shirts,	Sale \$1.25 each
85c. Men's Working Shirts,	Sale 59c. each
35c. Men's Heavy Black Cotton Socks,	Sale 25c. pair
75c. Boys' Shirts and Blouses,	Sale 50c. each
\$1.00 Boys' Sweater Coats,	Sale 69c. each
\$2.00 Tiger Brand Underwear,	Sale \$1.65 each
\$1.50 Atlantic Brand Underwear,	Sale \$1.00 each

Women's and Children's Wear	
\$1.00 yd. Colored Velveteen,	Sale 75c. yd.
\$1.65 yd. Colored Velveteen,	Sale \$1.19 yd.
\$1.25 yd. 27-inch Navy and Green Corduroy,	Sale 89c. yd.
\$1.75 yd. 27-inch Corduroy Twill Back,	Sale \$1.19 yd.
85c. yd. Dress Plaids,	Sale 69c. yd.
\$2.00 yd. Gabardine,	Sale \$1.69 each
\$1.25 yd. Colored Serges,	Sale 85c. each
75c. Ladies' Vests and Drawers,	Sale 59c. each
\$1.25 Ladies' Fleece Vests and Drawers,	Sale 89c. each
50c. pair Ladies' Black Garter Top Hose,	Sale 35c. pair
69c. pair Black and Tan Lisle Hose,	Sale 50c. pair
75c. pair Boys' Heavy Wool Hose,	Sale 59c. pair
90c. pair Boys' Worsted Hose,	Sale 75c. pair
\$3.50 Girls' Navy Serge Middies,	Sale \$2.50 each
\$3.00 Girls' Navy Serge Dresses,	Sale \$2.50 each
\$3.50 Girls' Colored Corduroy Dresses,	Sale \$2.50 each
\$3.25 Girls' Black and White Check Dresses,	Sale \$2.39 each
\$2.00 Children's Dark Dresses,	Sale \$1.69 each
\$2.00 Print House Dresses,	Sale \$1.69 each
50c. Ladies' Lace Trimmed Corset Covers,	35c. each
75c. Ladies' Hamburg Trimmed Corset Covers,	Sale 50c. each
75c. Knit Corset Covers,	Sale 59c. each

I. CHESTER BROWN
NEXT IMPERIAL THEATRE
32 AND 36 KING SQUARE

Every black spot means that there the wall of the bubble is composed of a single layer of molecules, and one of the results of the experiments has been to show the tremendous strength of the molecule, even of the molecule of water. Sir James, in making his report, said that it was Pasteur who discovered the presence of living organisms and their spores in the atmosphere. Unless the bubble can be blown in a chemically pure atmosphere, it will not long survive.

Purifying the Air.
Several methods have been employed for thus ridding the air of every particle of dust. Pasteur used to purify it by passing it through a red hot platinum tube containing platinum gauze, afterwards removing the total carbonic acid. Tyndall used to burn it with a Bunsen flame, or smeared the inside of a glass vessel with glycerine to which the dust would gradually adhere. The case before Dewar, in view of the fact that ordinary London air contains about 100-60 suspended particles, organic and inorganic, per cubic centimetre, will be appreciated. However he did get absolutely pure air and it is chiefly for this reason that his bubbles lasted so long. He blew a large number of them and a careful record was kept. It was noted that their shapes soon began to change, the tendency being always towards contraction for the reason that the air inside the bubble being at a slightly greater pressure than the air outside, tends to escape. As the bubble becomes smaller it becomes more highly colored. This, of course, is when the bubble is only a few inches old and before it begins to turn black.

Strength of Bubble.
Mr. Dewar noted that a bubble composed of five per cent ammonium acetate in fifty per cent glycerine "exposed to water vapor by running water into the containing vessel, will condense and absorb the water vapor and become thickened again for a time," but we must admit that the importance of this discovery is not as fully explained as a layman might desire. In order to test the strength of the bubble, water was added drop by drop until the maximum amount of distortion was reached. In one case the weight of water thus added nearly dragged the bubble from its rim support, but it did not break. Yet the walls of the bubbles are so thin that it is difficult to describe them in ordinary terms, but Dr. Dewar says that if one million and a third films of the thickness of one of his bubbles were superimposed, the pile would be about an inch thick. To such a film a drop of water would surely be more than a ton on a man's back. Every minute a layer of air molecules ten to eleven times the thickness of the bubble wall passed through it and escaped to the outer air. Yet in some cases it took one year for enough air molecules to escape to burst the bubble.

Of Industrial Value.
It may be that the value of these experiments to the average business man has not been made clear, but it is most interesting to note that Sir James Dewar is famous not more for his researches in pure science than for the value of these researches to industry. It was on these specific grounds that last year he was one of the two Franklin medalists, the other being Major-General George Owen Squier. The award is made by a jury of sixty men, most of them experts in various lines of American industry, and it is certain that if the discoveries of a man or his research work do not promise to have material value, he will not receive the Franklin medal. It was the Germans who led the world in their recognition of the important link between science and industry.

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MANCHESTER, ENGLAND. 16

try, and it is satisfactory to know that British and American philanthropists are now offering rewards for scientists who can give a helpful idea to industry. The Dewar experiments have a bearing upon the study of surface tension phenomena, and indirectly are of value in all experiments in the strength of material. Curious it would be if we should learn valuable lessons in strength from the walls of a soap bubble.

Welch's GRAPELADÉ
A Pure Grape Jam

SUNDAY dinner—Grapelade as a sauce with meat—Grapelade pie for dessert. That's something to look forward to. Keep it in mind and order a jar of Grapelade from your grocery store.

Grapelade is tart, having the true taste of grapes—smooth because seeds and skins are removed—sweet and pure because only pure sugar is added. In glass jars and enamel-lined tins from your grocery. Write for Recipe folder.

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Welch's Grapelade
a pure grape jam

FIVE ROSES FLOUR
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Between the sun-ripened fruit of the western prairie and the golden loaves you bake—FIVE ROSES fills the gap.

LEARNING FROM SOAP BUBBLES
One Bubble Lasted for More Than a Year.

It is announced with impressive gravity by the Journal of the Franklin Institute, in Philadelphia, that Sir James Dewar has blown a soap bubble that lasted for more than a year. Many people have had the idea that blowing bubbles is about the most childish of amusements and far beneath the dignity of grown folks, let alone a scientific sharp like Sir James Dewar, who is a fellow of the Royal Society and Fullerton professor of chemistry in the Royal Institute of Great Britain, but if one recalls that it was the fall of an apple that led to Newton's discovery of the law of gravitation, which has been called the most stupendous effort of the human mind recorded in history, and that a bubbling tea kettle suggested the idea of the steam engine, it may be inferred that blowing bubbles may also be fraught with important consequences. Sir James has been experimenting with bubbles for more than a year, not, we may suppose, with a view of challenging some other professor to blow a longer-lived or larger bubble, but to get a little closer to the underlying secret of the world.

Studying the Molecule.
To the man of science the importance of the bubble lies in the fact that it affords one of the very best means of studying the molecule, and it is obvious that the longer the bubble lasts the better will be the opportunities of studying it. Ordinary soap bubbles are not suited for the purpose of investigation, and therefore Sir James and others who are exploring along similar lines make a bubble of a special concoction of water, ammoniumoleate, glycerine and other things, and experiment with air both inside and outside of the bubble that is free from organic matter. One of the first things to be noted about these bubbles after they have been in existence for a considerable length of time is that they turn black in spots and if they last long enough become black all over.

5 Reasons Why You Should Use DEARBORN'S

- (1) You Get Value for Your Money.
- (2) It is a Canadian Product Made by Canadian Labor.
- (3) Your Money is Spent in Canada.
- (4) You are Boosting the Maritime Provinces.
- (5) It is Guaranteed FREE from Alum and Contains Only Wholesome Ingredients.

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The Sale That Has Been the Talk of the Town—Better Values Still For Closing Days!

- Ladies' Gun Metal High Heel Boots, Special Sale Price, \$3.85
- Ladies' Grey Kid Boots—High heel, Special Sale Price, \$4.35
- Bargain Table Specials—Various lines in broken sizes, To Clear, \$3.85
- Men's Tan Boots—Receding toe, Neolin or leather soles Sale Price, \$4.85
- Men's Tan Goodyear Welt Boots—Made for winter wear Special at \$5.50
- Men's Tan Boots—Viscolized soles. An extra good work boot Special, \$4.50
- Boys' High Cut Boots with buckles, Special Price, \$3.85
- Misses High Cut Boots—Neolin sole Sale, \$2.85
- Gaiters . . . \$1.98 and \$2.48
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