#### he Greenwich Observatory

O HUNDRED AND FIFTY YEARS ERVICE TO SCIENCE OF AS-TRONOMY.

PROF. H. H. TURNER in "London Observer."

or two centuries and a half Greenth has been in the front rank of obatories, a world authority on prond astronomical questions, and a enized referee in important contions. The recent transformation astronomy which has brought into ng observatories of a new type and astly greater magnificence has not ipsed Greenwich, which continues turn out work of fundamental imtance. To some sitractive parts of onomy it may have paid no heed. oking back through its history we see that opportunities may have missed in this way and others; that it could afford to toss asite valuables is after all a sure k of its greatness and success. It shown something of that sturdy irance which we like to associate the persnality of John Bull. history is nearly, but not quite, stensive with that of modern asomy, and the exception is of imance. In those glorious days of o centuries \$20, when Tycho he in Denmark was laying founons of our knowledge of the etary movements and Galileo of was first using the telescope land was not yet astronomically ke. It was to have a splendid sunin the genius of Newton; but be-Halley discovered Newton, Green-Observatory had already been ded for a very practical purpose, h has been 'kept steadily in view since, viz., the making of such nomical observations as would sailors to find their position at a terrible difficulty in these early A claim by a French imposter, leur de Saint Pierre, that he could how to solve the problem from osition of the moon among the came to the King's ears, and he t confirmation of so important

parently there was then in Engonly one man to whom the matould safely be referred, and he red emphatically against the ant for the reason that the ments of the moon and places of stars were not sufficient known should be the subject of study. upon the King (Charles II.) ded that he must have the requisite vations made for the sake of his s and directed Wren (who had just exchanged astronomy for ecture) to build the Greenwich vatory. "Who is to take charge the King was asked when the ing was completed. "Why, the who told you it was required." ptly replied the King; and so the hn Flamsteed became the first nomer Royal, with a fine house eenwich Park (which our presing visited on July 23) and with ry of £100 a year, but with no ants and no instruments to obwith!

story was nearly repeated some ears later, when Airy was inas Director at the new Cam-Observatory, and it was said, gave Airy nothing, a local habiand a name.")

Flamsteed was a man of enhe bought his own instruments ndustriously used them. And almost at the outset, came one ose lost opportunities to which ve shove alluded Newton had hy ime written the "Principla," and had published it at his own se so that the world might not from more dilatory methods. a splendid combination might nd now have had between its actical observer and its mighty ical genius! But, alas! instead alliance there came a quarrel. wanted Flamsteed's observaout Flamsteed, having made with his own instruments, conthem as his own property and d the quarrel. Halley, who had uch splendid service in eliciting rincipla" from Newton, falled to e the new situation equally ; at any rate the breach bevider, and we can only guess at cost us. Nevertheless, a sound ing had been made: Flamobservations, in spite of infaults due to the novelty of k, were a contribution of pervalue to astronomy.

y himself, when he succeeded eed for a long term at Greenid no better; indeed, he did not rly so well, for his nautical exe had given him a sympathy igh and approximate work. ough at sea, but not suftable exed observatory. But we owe ey so much in other ways that afford to forget the additional he might have left us. If not rate observer himself, at least gnized he merits of Bradley as, and offered to resign in his migh the offer was not ac-When, nevertheless, Bradley seed, he well and truly laid the ions of our modern knowledge ar places and movements. To ne, who followed him, it fell rt on the sextant and the eter, both of which became I to saflors. And the work of sailors, and surveyors too

# Another Friday and Saturday of Sterling Attractions

Something for everybody. Every thing for a little. Every department marshals an incomparable opportunity. Facts that speak with greater force than words or long-winded statements. Facts that effect the interest of every man, woman and child in this country. Read-



## We Give the Wage Earner the **Biggest Values Always** at STEERS

COATS-In Camel and Brown,

made with long roll collar to fit

snugly about the neck; sizes 38

40 and 42. Reg. \$3.75 each. Friday and Saturday . \$3.45

MEN'S PLAIN ECRU SHIRTS -

MEN'S PIPES-A big variety of the

best standard shapes, made from

real briar root. Special for Fri-

day and Saturday, each 19c.

It's not hard to keep the family in good humour

**Good Wholesome** 

Things to Eat

You can select a lot of good, wholesome things here. The quality makes them a pleasure. Our prices for Friday and Saturday make them an ecen-

Laundry Necessities

"Sunshine"

"Jersey"

Corn Flakes.

Babbitts 1776

Saturday .. ..

Sunlight Soap.

Saturday ....

WOMEN'S GABERDINE

DRESSES—New styles with Hylo collar and long sleeves,

nicely trimmed with braid and

buttons; Navy and Black only;

sizes 36 to 44. Reg. \$12,00 and

\$12.80 each. Friday \$9.90 and Saturday ....

WOMEN'S VELOUR COATS-In

Grey, Brown, Black and Cocoa,

beautifully made and finished

with fur collar and cuffs, some with fur edged collar and fancy stitching. Reg. \$20.50 each. Friday and \$17.25

WOMEN'S BLANKET CLOTH

COATS-Made with Hylo col

lar and front to fasten with

one large button; colors: Grey, Fawn, Navy and Blue; all

and Saturday ... \$7.50

INFANTS' FEEDERS - White,

Pale Blue and Pink, Terry cloth in different designs, fringed ends and tie to fasten

around neck. Reg. 33c. each. Friday and Saturday 30c.

Reg. \$9.75 each. Frie

Regular 40c. carton.
Friday a n d 36c.

Brand Maccaroni

1 lb. package. Reg. 20c. Friday a n d Sat'y. 15c.

Large packages. Reg. 20c. Friday 16c.

Washing Powder.

Regular 7c. package.

Friday a n d 5c.

Saturday ....

"My Own"

Pork and Beans.

Reg. 18c. tin. 14c.

Evaporated Milk.

Borden's and Danish

Pride. Reg. 15c. tin.

Friday and 12c.

"Bibby's" Laun-

Friday a n d 15c

Saturday .. IJC Regular 10c. Bar.

Friday a n d 8c.

Washington Lye.

Friday and 12c.

Saturday .....

dry Soap.

Saturday

MEN'S TWEED PANTS-Well made three pocket pants with cuff bottom and hip straps, in assorted Greys. Sizes 4, 5, 6 and 7. Regular \$3.30 pair. \$2.80 Friday and Saturday .. .. ..

MEN'S COTTON TWEED PANTS-Of closely woven striped Grey material in a light weight. The ideal pants for workmen where a heavier pants is not required. Strong and serviceable. Regular quired. Strong and Satur- \$2.10 

MEN'S FINE QUALITY WOOL TWEED PANTS—In likeable Dark mixtures.
Made with cuff bottoms and belt straps. A most desirable quality for fine wear Sizes 3, 4, 5, 6, 7. Regular \$5.50 \$4.70 pair. Friday and Saturday MEN'S SLEEVELESS SWEATERS-Made from all Wool yarn of an extra good quality, that will prove most satisfac-tory in wear. Color: Camel trimmed Brown. Sizes 36 to 42 inches. \$2.50 each. Friday and Sat- \$2.18 urday

MEN'S ALL WOOL SWEATER MEN'S FINE QUALITY ALL WOOL SWEATER COATS - A quality that will give real good service and wear exceptionally well: color: Camel, trimmed tan at collar and pockets; sizes 38 to 42. Reg. \$5.60 each. **\$4.80** Friday and Saturday BOYS' TWEED PANTS-Knicker

Tunic styel with collar attachstyle, in Brown, Blue and Grey; ed and soft single cuff; a very popular line; all sizes. Regular sizes to fit boys of 8 to 14 years. Reg. \$1.45 pair. riday \$1.32 \$2.00 each. Friday and \$1.65 MEN'S HANDKERCHIEFS - of BOYS' WOOL TWEED 2-PIECE mercerized cotton with assorted colored borders, large size. Reg. 25c. each. Friday and 19c.

SUITS—A Very pleasing style for fall wear; Coat with belt and patch pockets and Pants in open knee style; made from good quality all wool Tweed in Grey and Brown mixtures; sizes to fit \$8.35 suit. Friday and \$7.85 Saturday .....

### UNEQUALLED BARGAINS

**SMALLWARES** CROWN EXERCISE

Reg. 7c. ea. for 6c. TOOTH BRUSHES. Reg. 17c. ea. for 15c. SEWING NEEDLES— Reg. 4c. pkg., 2 MENDING WOOL-Reg. 3c. card for 2c., Reg. 20c. ea, for 16c. MEMO. BOOKS— Reg. 18c, ea. for 15c, TALCUM POWDER— Reg. 17c. tin for 14c. SHEETS OF PINS

Reg. 3c. for .. 2c. NOTE BOOKS— Reg. 3c. ea. for 2c. DRESSING COMBS Reg. 20c. ea. for 15c. SHAVING BRUSHES— Reg. 20c. ea. for 16c. PALM OLIVE SHAVING CREAM-Reg. 55c. cake for 49c COLGATE'

TOOTH PASTE-Reg. 15c. tube for 13c Hosiery WOMEN'S HOSE-Brown, Grey Black in plain make. Wide garter tops; all sizes, Reg. 45c. pair. Friday a n d 35c,

Saturday ... JJC, COLORED CASHMERE HOSE - Green and Grey shades. Seamless feet. Reg. 90c. pair. Friday 73c, and Saturday HOSE -Black only. wearing quality. 7—Reg. 30c pr for 25c 8—Reg. 35c pr for 30c 9—Reg 40c pr for 84c

More Solid Bargains in MEN'S WEAR Than You'll Find Anywere Else in St. John's

MEN'S WOOL TWEED SUITS—Heavy quality, in rich Brown Striped Tweed. Just the Suit for Fall and Winter wear, because of its heavy weight and wear-resisting quality: all sizes Regular \$18.50 Suit. Friday and \$16.25 Saturday .. .. .. .. .. .. ..

MEN'S NEGLIGEE SHIRTS-Tunic style, made from fine striped shirt materials in assorted 

MEN'S NAVY SERGE SUITS-Perfect fitting Suits, tailored in the very newest styles from fine quality all-Wool Serge. We cannot lay too much emphasis on the quality and value of these suits, and at Friday and Saturday's price they should interest many. Sizes 4, 5, 6 and 7, Regular \$32.50 Suit. \$27.90 Friday and Saturday ..... Friday and Saturday ..... MEN'S TWEED SUITS-A choice pattern of Dark

Grey, made in the very latest style; cuff bot-Regular \$15.85 Suit. Friday and \$14.40 Saturday .....

MEN'S MERCERIZED COTTON HANDKERCHIEFS—Plain white with wide hemsitched hem; large size. Reg. 23c. ea. 18c. Friday & Saturday ... 18C.
MEN'S POLICE BRACES—Of good strong elastic webbing, finished with durable leather loops. Reg. with durable leather 100ps. 50c. pair. Friday and 42c. popular Brace for Ane wear.
Reg. 65c. pair. Friday 55c. 

pair. Friday and Satur- 19c. with strong metal buckles; sizes 32 to 42 inches. Regular 45c. each. Friday and Satur. 35c. day ..........

MEN'S ALL WOOL HALF HOSEassorted Heathers; ribbed make with seamless toes and heels; the right quality for present season's wear.
pair. Friday and Satur- 55c. day ..... MEN'S PURE WOOL HALF HOSE

-"Alpha" brand, with card of wool attached for mending; exceptionally good quality; all sizes. Reg. 95c. pair. 82c. Friday and Saturday. MEN'S CASHMERE HALF HOSE -Broad ribbed legs and plain seamless toes and heels; Black and Grey, in all sizes. Regular

and Grey, in all stand 87c. Saturday .. .. MEN'S BELTS-Of black leather MEN'S PARIS GARTERS-Single grip style in assorted light and dark colors; good lasting quality. Reg. 45c. pair. Fri. 39c. day and Saturday .. ..

Blankets - Heavy

make, exceptionally

good quality. Size

72 x 92 inches. Reg.

\$13,50 pair. Friday and Sat. \$11.80

WHITE WOOLY

BLANKETS - Extra

heavy quality with borders of Pink or

Blue striped. Size 60 x 80 inches. Reg.

\$6.70 pair. \$5.60 Fri. & Sat. \$5.60

STAIR or HALL CAN-

VAS-Floral and

Block designs with

borders to match; 22½ inches wide.

Friday and 48c.

duction of wireless signals. But, happily, the utilitarian needs which founded Greenwich Observatory, and which have throughout guided its career have not controlled it entirely. Scientific activity is a

vas steadily kept in view by Pond, by

iry, by Christie, and by Dyson of the

present day. Probably no one but

himself knows what it cost our present Astronomer Royal to superintend

the supply of chronometers to navies

during the war. And he is now left

with an anxious practical problem as regards the future of the chronometer, which is embarrassed by the intro

sturdy plant which pushes aside attempts to confine it, so that the study of the moon's motion, undertaken at first for the benefit of sailors, has been nursued into refinements for its own sake; the few bright stars regarded by sailors have long ago grown into an extensive list of both bright and faint, of which not only the places have been determined, but the motions, too, and even the distances on the planets have also been drawn into the net. They are not scrutinized with a big telescope; they are measured with an accurate one. Greenwich has, indeed, one or two telescopes of respectable size, but the glory of the place has been throughout the transit circle and its predecessors-firmly mounted in the famous Greenwich meridian.

Reference has been made to the occasional neglect of opportunities. Besides the loss of Newton's alliance at the outset, there was at least one other case which has passed into common knowledge—the loss of the planet Neptune as an exclusive English discovery. But it is pleasant to be able to record a recent instance of a different kind. When Einstein probounded his astounding new theory. we were at war with his nation. Nevertheless, his work was carefully studied by Englishmen and it was pointed out by an Englishman that a

specially good opportunity for testing the theory would occur at the total eclipse of 1919. It seemed at the time hopeless to make the necessary expeditions, but preparations were made nevertheless, so that when the Armstice suddenly came a prompt start could be made. The weather was propitious: good photographs were secured and Einstein was found to be right. It was a dramatic recognition of an enemy achievement, but, more than that, it is noteworthy that Greenwich made, instead of losing, the opportunity. It was the Astronomer Royal who first called atention to it; and it was at our Royal Observatory that the greater part of he work of preparation was undertaken. The credit may well wipe out more than one debit.

Il say its good! Just a little rub and ils ready for your pip

## Slavery in the Sudan

While American investigators are ibmitting to the League of Nations their report on so-called slavery in Portuguese Africa, accounts of outand-out slavery in British Africa reach Geneva. They are signed by Major Diggle, formerly an administrator in the Sudan, and issued by the Anti-Slavery and Aborigines' Protection Society. As reproduced by the London papers, his statement begins, 'I went to the Sudan knowing nothing whatever about slavery; but, having lived there four years out of seven, mostly alone and in extremely close contact with the people, I could not fail to notice the appalling evidence of slavery." The Major con-

tinues: Since my return to England about year ago I have tried privately to get effective action taken, but unfortunately the official attitude is that very little can be done at present.

"If the League of Nations' Slavery Commission could appoint a small ommittee of investigation, I would be willing to appear before them and give them personally some of my experiences in the Sudan as evidence of the efforts I have made to secure ade quate reforms. The facts contained in this statement have already been brought formally to the notice of the administration by me while in the Sudan.

"The argument advanced by upholders of slavery that their masters look after them in their old age is, in my opinion, a demonstrable untruth so far as the locality in which I was stationed is concerned. The argument that slaves can obtain their freedom by asking for it is incorrect."

Do you want a round trip ap23,th,tf to New York for two or \$1000? Round trip to Halifax for two or \$250? Trip to coon is excellent for sports wear.

Corner Brook or \$100? Sev. Tinsel brocades should be made up Corner Brook or \$100? Seventy Five Dollars, Fifty Dollars, Twenty Five Dollars? see ad. this issue.—oct1,3i,end

Jams Jellies to his Majer and Canned King GEOR By Appointment

AN AVERAGE All Chivers' preparations are -is the appeal guaranteed purity, and are made

men to this GR

These gorgeot

somer than the

wanted fabric

FOR W

Materials a

Alvarado,

Bokhara,

Show

Beason

to share

inges of

we ay

same

highe

pointe

beautiful

this Sale.

## under ideal hygienic condition Chivers **Olde Englis** Marmalad

in the fresh air of the countr



Only Selected Seville Orang and Refined Sugar, but so ski fully blended as to preserve th valuable tonic properties of the fruit. "Your Olde Englis Marmalade . . . makes break fast worth while," writes a use

## Chivers



Flavoured with Ripe Fruit Juices. The family and visitors, children and adults, all delight in CHIVERS JELLIES-they are delicious.

## Chivers Jams the Orchard to the Home



Chivers & Sons own 6,000 acres of land, a large proportion of which is devoted to fruit culture They use each year thousands of tons of fruit freshly picked from their own orchards and preserved as soon as gathered with refined sugar only.

## Chivers Custard Powder



Combines highest Quality with greatest Economy. It creams up into a nutritive Custard of exquisite flavour. A Packet makes I Pint. A Drum makes over 100 cups.

CHIVERS & SONS, Ltd. The Orchard Factory, Histon, Cambridge, England. Chivers' products are sold everywhere, but should you have difficulty in obtaining them, please communicate with the Chivers' Agents

G.W. SNOW, 376 Water St ST. JOHN'S, Newfoundland The tweed coat collared with rac

simply, but in rather formal style. MINARD'S LINIME T USED BY

PHYSICIANS.

Give them a look and see if you can't save money on your purchases!

#### **Household Goods** COLOURED TURKISH TOWELS-Heavy close make in coloured stripe designs. Size 19 x 24 inches. Regular 55c. each. Friday and 48c. Saturday ..... ENGLISH ALL WOOL

FLOOR CANVASdesigns, 2 yds. wide. Regular \$1.25 yard. Friday and \$1.00 SCRIM CURTAIN SETS —With fancy lace edge; 2½ yards long. Regular \$4.75 pair. Friday and \$4.25 PRINTED JUTE RUGS

terns; finished with fringe. Size 32 x 60 inches. Reg. \$1.10 each. Friday and Saturday .. 95c.

PLAIN WOOL NAP BLANKETS - Buff, Pink and Blue grounds. Size 64 x inches. Regular \$5.00 pair. \$4.25 Fri & Sat. \$4.25

MISSES' OVER-KNICKERS Fleeced material in navy, to fit from 6 to 12 years; elastic at waist and legs. Reg. 95c. each. Friday and Saturday 83c. .. .. .. .. .. .. .. ..

CHILDREN'S PINAFORES White Cambric nicely finished with embroidery and pin tucks

tic at waist and legs, Reg. \$1.10 pair. Friday 97c.

INFANTS' SACQUES-Pink and Pale Blue, fleeced material, trimmed with fancy loop stitch at neck, front and leeves. Reg. 95c. each 83c. Friday and Saturday

#### holes and pockets. Reg. 95c. each. Friday and Sat- 62c. each. Friday and Sat- 80c. urday .. .. .. .. WOMEN'S UNDERVESTS - Of sleeves, styles finished with White binding; all sizes. Reg. saturday ..... 63c. WOMEN'S OVER-KNICKERS Fleece lined, in Camel, Grey and Pink; finished with elas-

partment, for we have a magnificent collection of the very newest in FALL HATS. All the rich colorings so suitable for now are being shown and the prices are so reasonably low that you cannot resist getting one. Prices range from

\$2.10 up to \$9.00 each

## **Chances For Every Woman to Save**



finished with fur-trimmed collars and cuffs. Some are made with the popular storm collars that is so much in demand. Colors: Sand, Brown, Grey and Navy. Sizes 6 to 14 \$4.95 years. Regular \$5.60 each. Friday and Saturday \$4.95

Black; made in shirt waist style with two-way collar, long sleeves and cuffs trimmed with buttons to match. Reg. \$2.75 each. Friday \$2.30 and Saturday .. ..

BLOUSES-Fancy striped Repr. WOMEN'S OVERALL APRONS in Navy, Saxe, Brown and -Ginghams, in assorted pretty checks with ric-rac braid trimming around neck, arm-