

# POOR DOCUMENT

# MC 2035

THE EVENING TIMES AND STAR, ST. JOHN, N. B., WEDNESDAY, MAY 3, 1922

## WANTED

### WANTED—MALE HELP

WANTED—GARDENER TWO DAYS  
a week—82 Parks St.  
26871—5-6

WANTED—A GOOD BAKER.  
Third man. One accustomed to work  
on bread—Apply Lauckners, 119 Sydney  
street.  
26743—5-5

WANTED—PAPER HANGERS AND  
White-washers at once—A. R. Milnes,  
206 Newman, Phone M. 3539.  
26784—5-5

MAKE MONEY AT HOME—\$15 TO  
\$60 paid weekly for your spare time  
writing show cards for us. No can-  
vassing. We instruct and supply you  
with work. West Angus Showcard Ser-  
vice, 37 Colborne Ridge, Toronto.  
1-5-T.F.

## WANTED

WOMAN WANTS WORK BY DAY.  
Telephone Main 4415-11.  
26935—5-6

WANTED—ONE OR TWO ROOM-  
ers for bright furnished room. Good  
locality, reasonable. Write Box 7, 21,  
Times.  
26882—5-5

WANTED—MAN WANTS WORK  
house cleaning or anything—Main  
4466.  
26783—5-6

WANTED—MOTHER'S HELP. HIGH  
school girl to go to Renforth after  
school hours—Apply between 5 and 6  
to Mr. Wilson, 93 Prince William St.  
26717—5-8

WANTED—BY THREE YOUNG  
ladies, furnished room in summer  
home along C. P. R. Please write loca-  
tion and price either by week or for  
season to Box 8, 4 Times.  
26827—5-7

## SALESMEN WANTED

A SALESMAN WANTED TO SELL  
sheet music. Exclusive territory to live  
area. Hearst Music Publishers, Limited,  
Ottawa.  
26827—5-7

## HOUSES WANTED

House or flat of at least seven  
rooms; modern and central; small  
family. Particulars to Box 22, 4  
Times Office.  
26445—5-5

## FLATS WANTED

WANTED—SMALL FURNISHED  
Flat, man, wife—Write price, loca-  
tion, etc., Box 2, 19 Times.  
26884—5-5

WANTED—TO RENT SMALL  
Flat, furnished or unfurnished. Adults.  
Apply Box G 73, Times.  
26971—5-5

## AGENTS WANTED

MEN AND WOMEN, STUDENTS,  
teachers and others, to sell at reason-  
able prices, \$21 a week and expenses, with  
good chance to make \$50 a week and  
expenses. State age and qualifications.  
Experience unnecessary.—Winston Co.  
Dept. O, Toronto.

## MEASURE IMPULSES EYE SENDS TO BRAIN

New Light on Laws Govern-  
ing Mechanism of Vision  
Revealed at Harvard—Novel  
Apparatus Used.

Cambridge, Mass., May 2.—The most  
accurate measurements ever made of the  
manner in which the optic nerve trans-  
mits nerve impulses from the eyes to the  
brain have been made recently at the  
laboratories of the Harvard Medical  
School and have thrown new light on  
the laws governing the mechanism of  
vision. The experiments, conducted un-  
der the direction of E. L. Chaffee, as-  
sistant professor of physics, and W. T.  
Boyd, assistant professor of medicine,  
were made with extremely delicate elec-  
tric apparatus which amplified about 500  
times the nerve impulses passing from  
the eye to the brain.

It has long been known that light pass-  
ing through the lens of the eye makes  
an image on the retina at the back of the  
eyeball, as on a photographic plate, and  
that the impulse which then carries the  
message from the retina along the optic  
nerve to the brain is in the nature of  
an electrical disturbance. Such men as  
Waller and Jolly, in England, and En-  
thoven in Holland, have been able to  
measure roughly the intensity of this  
electrical impulse. They have repre-  
sented its intensity by a curve, and have  
found that when a light is flashed upon  
the eye the curve rises sharply, then  
dips, and then rises again gradually.

This second rise corresponds with the  
phenomenon known as "after vision,"  
which may be noticed by anyone who  
looks at a bright light and then closes  
his eyes. He continues to "see" the light,  
because the optic nerve is still trans-  
mitting impulses to the brain.

At the Harvard laboratories these in-  
vestigations have now been pushed much  
farther and made more exact. The  
Harvard experiments were performed on  
the eyes of frogs. The frog was killed  
and his eye was then immediately re-  
moved. The eyeball was cut in two and  
the optic nerve, which ordinarily con-  
nects it with the brain, was attached in-  
stead to two electrodes connected with  
a vacuum tube amplifier such as is  
used in wireless telegraphy. This was  
connected with a string galvanometer  
so adjusted that it registered the slight-  
est electrical disturbance. In other  
words, whatever the frog's eye "saw" was  
reported electrically, not to the frog's  
brain, but to this galvanometer, and am-  
plifier 500 times.

This apparatus, attached to the frog's  
eye, proved far more sensitive to light  
than any hitherto constructed. It meas-  
ured the impulse from light a great deal

## SHOPS YOU OUGHT TO KNOW

Designed to place before Our Readers the Merchandise, Crafts-  
manship and Service Offered by Shops and Specialty Stores.

### AUTO STORAGE

BRING YOUR CAR TO THOMP-  
son's wash stand, get it washed for 75  
cents—55 Sydney St.

### BABY CLOTHING

BABY'S BEAUTIFUL LONG  
Clothes, daintily made of the finest  
materials; everything required; ten dol-  
lars, complete. Send for catalogue. Mrs.  
Wolfsong, 672 Yonge street, Toronto.  
11-1-1921

### BARGAINS

WALL PAPER AND BLINDS—  
Floor and Table Oilcloths—at Wet-  
more's, Garden St.

### DANCING LESSONS

PRIVATE DANCING LESSONS,  
Main 4282—R. S. Seale. 24248—5-6

### DYERS

NOTICE TO MOURNERS—Fast  
black returned in 24 hours. Phone 4700,  
New Street Dye Works.

### ENGRAVERS

WEDDING INVITATIONS, AN-  
nouncements and Cards. For correct  
forms and styles see A. G. Plummer, 7  
Charlotte street, up-stairs.

### FURNITURE MOVING

FURNITURE MOVED, CITY AND  
suburbs, experienced man, careful, rea-  
sonable rates.—McGuire Bros., Phone  
26731—5-5

### ROOFING

GRAVEL ROOFING, ALSO GAL-  
vanized Iron and Copper work.—  
Joseph Mitchell, Phone 1401.  
26707—5-8

### LADIES TAILORING

EVERYTHING IN LADIES' AND  
Gents' Tailoring and Fur. Made to  
order. A. Morin, Artist Tailor, 52 Ger-  
main.

### MARRIAGE LICENSES

MARRIAGE LICENSES ISSUED, \$30  
a. m. to 10.30 p. m. daily.—Wasson,  
711 Main St. and 19 Sydney St.

### MATTRESS REPAIRING

ALL KINDS OF MATTRESSES AND  
Cushions made and repaired. Wire  
mattresses re-stretched. Feather beds  
made into mattresses. Upholstering gen-  
erally done, twenty-five years' experience.  
Walter J. Lamb, 22 Britain street, Main  
487.

### PAINTS

H. B. BRAND PAINTS, \$3.50 TO  
\$4.00 per Gallon. Send for Color  
Haley Bros., Ltd. 6-9-1922

### PIANO TUNING

PIANO AND ORGAN TUNING AND  
repairing. All work guaranteed, rea-  
sonable rates.—John Halsey, Phone Main  
4421.

### PIANO MOVING

PIANOS MOVED BY EXPERI-  
enced men, up-to-date gear, at reason-  
able price.—W. Yocum, 7 Rebecca St.,  
Phone M. 1738. 26448—5-5

### PAINTING

PAINTING AND WHITEWASHING  
promptly attended to.—321 City Road  
26780—5-5

### PICTURE FRAMING

PICTURES FRAMED AND EN-  
larged at lowest prices at Kerrett's, 222  
Union (opposite Opera), Main 3644.  
22116—6-1

### PLUMBING

C. R. MURRAY, PRACTICAL  
Plumber, Steam and Hot Water Heat-  
ing a specialty. Repair work promptly  
attended to. Satisfaction guaranteed.  
Address 22 Clarence St., Phone 4601.

### CHAS. H. MCGOWAN, SANITARY

Plumbing and Heating Engineer. Sat-  
isfaction guaranteed. Repair work  
promptly attended to—3 Castle street.

### SECOND-HAND GOODS

SECOND HAND CLOTHING, JEW-  
elry, diamonds, old gold, silver, gun-  
etc. purchased.—H. Gilbert, 24 Mill street,  
Phone 4012.

### WANTED TO PURCHASE—LADIES'

Gentlemen's cast off clothing,  
boots highest cash prices paid. Call or  
write Lampert Bros., 555 Main street,  
Phone Main 4463.

### WILL PAY MORE FOR SECOND

Hand Store, 573 Main street, Main 4466.

### WATCH REPAIRERS

FINE WATCH REPAIRING A  
specialty. Watches, Clocks, and Jew-  
elry. Ernest Law, Est. 1888, 8 Coburg  
street, Phone Main 4463.

### DIAMONDS BOUGHT AND SOLD

Watch and Clock Repairing a Spe-  
cialty.—G. D. Perkins, 48 Princess street.

### WELDING

WELDING AND CUTTING OF ALL  
kinds of metals by Oxy-Acetylene pro-  
cess.—C. J. Morgan & Co., Ltd., 48 King  
Square.

## Roof Leaky for Want of Shingles?

Better fix it up now, before  
more damage results from  
rain and adds to the cost.  
You'll find nothing better  
than our

### STANDARD GRADE NEW BRUNSWICK CEDAR SHINGLES

which come in Extras,  
Clears, 2nd Clears and Ex-  
tra No. 1. Also, we offer  
Spruce Shingles.

### For Prices, PHONE MAIN 3000.

### MURRAY & GREGORY LIMITED

Cutting Mill—Aladdin Co.

## Don't Let Your Property Run Down

Keeping it in good repair will  
save you money in the long run. Re-  
new the claddings and shingles.  
Renail the moldings on the  
doors that have decayed. Replace  
the leaky gutter. Keep the water  
out of the wood. "Save the sur-  
face" and you save all.

### For corner boards and any other kind of boards

### PHONE MAIN 1893.

### The Christie Woodworking Co.

Limited  
65 Erin Street.

### Use the Want Ad. Way

previous investigators could be plotted  
with much more accuracy. They dis-  
covered that the smoothness and regularity  
of these curves are distributed by a  
large number of small oscillations, and  
that these oscillations have to do with  
the perception of color.

How color impulses were transmitted  
from the tiny "cones" on the retina to  
the brain had not previously been  
known. The Harvard investigator dis-  
covered that all impulses passing along  
the optic nerve are rhythmic, that they  
go in a series of extremely rapid pulsa-  
tions, and that the nature of this rhythm  
varies with the color of the light seen.

White light, for instance, when flashed  
upon the frog's eye causes impulses to  
pass along the optic nerve to the galvano-  
meter in groups of white light causes  
regularly recurring impulses. As the in-  
vestigators alter the color of the light  
cast upon the frog's eye the rhythm of the  
impulses varies accordingly. Inciden-  
tally, it has been noted that the frog  
is practically red blind; the frog's eye  
transmits only very faint impulses from  
red light.

The observations made at Harvard are  
said to confirm the accuracy of many of  
the laws of vision worked out through  
totally different methods by psycholo-  
gists. The investigators have measured  
carefully the way in which the response  
of the eye varies according to the inten-  
sity and duration of the light, which  
shines upon it. By thus finding out  
more about the natural laws which gov-  
ern the transmission of messages from  
the eyes to the brain they hope in some  
degree to make it easier for the medical  
profession in the future to understand  
and treat defects of vision.

## FINANCIAL

NEW YORK MARKET.  
(By Direct Private Wire to McDougall  
& Cowan, 58 Prince William  
street, city.)

New York, May 3.  
Open High Low

Allied Chem. 67 1/2 67 1/2 67 1/2  
Am Bosh 48 1/2 48 1/2 48 1/2  
Am Can 49 1/2 49 1/2 49 1/2  
Am Loco 117 117 116 1/2  
Am Int Corp 48 1/2 48 1/2 48 1/2  
Am Sugar 78 1/2 78 1/2 78 1/2  
Am Wool 92 92 91 1/2  
Am Smelters 88 1/2 88 1/2 88 1/2  
Am Sumatra 38 1/2 38 1/2 38 1/2  
Asphalt 68 1/2 68 1/2 68 1/2  
Atchafalpa 100 100 100 1/2  
Atlantic Gold 38 1/2 38 1/2 38 1/2  
Bath Steel 78 1/2 78 1/2 78 1/2  
Bldg Loco 118 1/2 118 1/2 118 1/2  
Brenntag 47 1/2 47 1/2 47 1/2  
Can Pacific 142 142 142  
Corn Products 108 108 107 1/2  
Coca Cola 66 1/2 66 1/2 66 1/2  
Coe Oil 48 1/2 48 1/2 48 1/2  
Chile & E III C 37 1/2 37 1/2 37 1/2  
Chile & E III P 37 1/2 37 1/2 37 1/2  
China 29 1/2 29 1/2 29 1/2  
Crucible 66 1/2 66 1/2 66 1/2  
Gen Leather 76 1/2 76 1/2 76 1/2  
Kendall 34 1/2 34 1/2 34 1/2  
Lack Steel 60 1/2 60 1/2 60 1/2  
Columbia Gas X D 87 1/2 87 1/2 87 1/2  
Erie Common 18 1/2 18 1/2 18 1/2  
Gen Motors 13 13 13  
Inter Paper 34 1/2 34 1/2 34 1/2  
Invisible 17 1/2 17 1/2 17 1/2  
Indus Alcohol 50 1/2 50 1/2 50 1/2  
Kelly Spring 51 1/2 51 1/2 51 1/2  
Kendall 34 1/2 34 1/2 34 1/2  
Lack Steel 60 1/2 60 1/2 60 1/2  
Mack Truck 47 1/2 47 1/2 47 1/2  
Midvale 38 1/2 38 1/2 38 1/2  
Mo Pacific 23 1/2 23 1/2 23 1/2  
N. Y. N. H. & H 27 1/2 27 1/2 27 1/2  
Nor Pacific 76 1/2 76 1/2 76 1/2  
Norfolk 45 1/2 45 1/2 45 1/2  
Pan American 65 1/2 65 1/2 65 1/2  
Pacific Oil 62 1/2 62 1/2 62 1/2  
Pure Marquette 30 30 30  
Reading 77 1/2 77 1/2 77 1/2  
Rock Island 45 1/2 45 1/2 45 1/2  
Roy Dutch N. Y. 64 1/2 64 1/2 64 1/2  
Rep I & S 65 1/2 65 1/2 65 1/2

Montreal, May 2.  
Abithibi 67 1/2 67 1/2 67 1/2  
Atlantic Sugar 18 1/2 18 1/2 18 1/2  
Asbestos Com 56 56 56  
Brompton 82 1/2 82 1/2 82 1/2  
Brazilian 45 1/2 45 1/2 45 1/2  
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Seneca 18 1/2 18 1/2 18 1/2  
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U S Rubber 97 1/2 97 1/2 97 1/2  
Westinghouse 124 124 124  
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N. Y. Funds—1 1/2 per cent.

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