

APPROACH OF ICE
HARD TO DETECT

Cold Water Changes Air but
Little, Declares Veteran
Sea Captain.

GULF STREAM INFESTED

Interesting Article on "Wrinkles of
Practical Navigation" Tells How
Difficult It Is to Evade Dead-
ly Floating Obstacles.

The article published below dealing
with the detection of ice in fog, is
taken from "Wrinkles in Practical
Navigation," by Captain Lecky. The
Oregonian is able to publish it through
the courtesy of the Harbor Master, Cap-
tain Jacob Speier.

Allied to fog is the question of dan-
ger from ice. It is a popular delusion
among passengers on board ships, that
by taking the temperature of the water
at short intervals the approach to ice
is unfailingly indicated. Unfortun-
ately such is by no means the fact and
it is time that the idea was exploded.
More than ordinarily cold water merely
shows that the ship is in a part of the
ocean where ice may be encountered,
and not that it is actually present.

The well-known Labrador Current,
for example, is a cold stream flowing
from polar regions and carrying with it
during Spring and Summer enormous
quantities of field-ice and bergs, which
come down from Davis Strait. It is not
the extra polar ice, however, which
causes the cold current, although it is
the cold current which brings down the
ice; consequently, the experienced nav-
igators of the North Atlantic know full
well that when the temperature of the
water falls to the eastward of the
Banks, it is necessary to be on guard
against the possibility of probability of
meeting ice, according to the time of
the year.

Little Change Even From Largest.
On the unexceptional authority of
three captains of the Allan line, all
men of high standing in the profes-
sion, and well acquainted with ice nav-
igation, it is here stated that no appre-
ciable difference in the temperature of
the water is caused by the proximity
of even the largest icebergs.

In conformity with what is known as
the law of convection, water will
transmit heat readily enough in a verti-
cal direction, but propagation of heat in
a lateral direction does not take place
in this manner at all. Heat spreads
sideways in water by conduction alone,
a process which involves no trans-
ference of the particles, and is very slow
indeed as compared with the other.

For example, the separation between the
deep blue water of the Gulf
Stream and the cold counter current
which runs down inshore is often so
well defined that a ship may be sailing
in both at the same time, the former
being so steep-sided, the latter current,
at line of meeting with the Gulf Stream,
has received the name of "Cold Wall,"
and has been known to differ 30 de-
grees in temperature from one running
close alongside it.

Bergs Often in Gulf Stream.
On the other hand, if the Arctic
Current points to a region where ice
is expected, it by no means follows
that it will not be encountered in the
Gulf Stream, as bergs have been
passed not only in the stream, but full-
ly to the southward of it, having
been carried there by the lower ocean
currents. The possibility of this will
be recognized when it is stated that a
matter of certain that icebergs are
seldom submerged less than seven-
eighths of their whole extent, and ob-
tain much more. Thus one 15 fathoms
high would ground in 100 fathoms
of water.

In a letter to the author on the use
of the thermometer as a means of de-
tecting the presence of ice by a fall in
the water, Lord Kelvin, the eminent
British scientist, writes: "The conduct-
ing power of water is so small that
there would be what is known as a
"skin effect" by conduction to a distance
from an iceberg, but there might be a con-
siderable effect by the cold and light
fresh water running down from the ice-
berg, and spreading far and wide over
the surface of the sea."

This seems a reasonable supposition,
but it is more than likely that the film
of cold fresh water would be broken
up by the agitation of the wind and
waves, under which circumstances the
hydrometer would be no better than
the thermometer.

Little Change From Ice.
Again it is well known that, about
the Banks, the Labrador Current is
sometimes colder when no ice is to be
seen about than it is when the con-
trary is the case. In Winter it even
falls to 30 degrees Fahr. Large ice-
bergs have been actually passed at a
distance of a quarter of a mile, and
the water temperature carefully test-
ed without finding a single degree of
difference from what previously ex-
isted when there was none in sight.

Effect Largely on the Air.
In a letter to the writer on the same
subject, Captain H. Toybee, F. R. A. S.,
superintendent of the meteorological
office, says: "As your question con-
cerns whether the thermometer indicates
the neighborhood of icebergs? I fancy it
depends on whether the ship passes
through water which has been in
contact with the iceberg or not. For
instance, running before the wind and
approaching an iceberg ahead, you
might expect the water to get colder
as you closed with it, and got into its
wake; but I think in other cases it
would not be safe to trust to the tem-
perature of the water. It seems rea-
sonable to suppose that an iceberg does
not much affect the temperature of the
water which had not been in contact
with it. One to windward would, no
doubt, have some effect on the tem-
perature of the air."

It may fairly be assumed therefore
that no reliance can be placed upon
the thermometer as a means of detect-
ing the presence of ice. In fog it will
simply tell you when the ship has
entered the ice-bearing current or not,
that is all.

Echo Detection Approach.
In time of danger it is unwise to
neglect any precaution; therefore, by
all means continue to use the ther-
mometer. But let not so doing lull
one into a false sense of security; much
better to go slow when in the ice lati-
tudes, now so well mapped out on the
Admiralty charts; keep a hand aloft,
and one on the forecastle; stop the ship
occasionally, and listen for the sound
of breakers, or the echo of the steam
whistle.

If it were only practicable a gun
would be very useful as giving a better
echo. A large iceberg will denote its
presence, even on the darkest night,
by a sort of whiteness, or halo, known
as "ice blink." This expression has the
same significance in its own line as the
word "loom" has in relation to land.

Look out for, and take heed of, any

sudden change in the air temperature—
perhaps of 10 or 15 degrees—more espe-
cially when the temperature is al-
ready low. Detached pieces of ice are
a good indication. These loose pieces
drift more rapidly than the large
masses, and on this account, when nav-
igating among ice, always endeavor to
pass on the weather side of ice islands
or bergs. From the position of their
center of gravity being altered by the
thawing process, these enormous
masses of congealed water, sometimes
lose their balance, take a sudden and
topple over on their broadside. At other
times, huge fragments break off, and fall into
the sea with a great commotion. By
whalers this is termed "volving."

ACTRESS IS COAST NATIVE
Katherine Grey, at Orpheum, Is San
Francisco Girl.

Katherine Grey, headliner at the
Orpheum in "Above the Law," is a San
Francisco by birth and her mother
also was born in the Golden Gate City.
Her mother's mother was born in Dub-
lin and her grandmother on her father's
side was French. "A good combination
for tragedy," declares Miss Grey jok-
ingly about her lineage.

In real life the tragedienne is known
as Katherine Best, but she has legalized
her stage name—Katherine Grey—and
by right of law signs all official docu-
ments with the name that has climbed
to the top of theater posters. Miss
Grey has been on the stage for more
than 15 years, reaching stellar rank
after appearing with such famous men
as Mansfield, Belasco, Charles Coghlan,
Nat Goodwin and Arnold Daly.

Her first big stage hit was made 12
years ago in "Shore Acres," in which
she appeared as leading woman in New
York under James Ahearn.

Immediately before entering vaude-
ville, Miss Grey completed a two-year
tour of the Antipodes, in which she was
starred by J. C. Williamson, in a com-
pany composed of English and Ameri-
can actors. She was the only American
in the cast. In that tour she played
"The Lion and the Mouse," "Third De-
gree," "Fald in Fald," "Salvage the Ship,"
"The Truth," "The Dawn of Tomor-
row" and "Madame Butterfly."

Miss Grey was with Mansfield when
Bernard Shaw first sprang into note
and she was the first to introduce in
English "The Reckoning," by Schmitzer,
celebrated Viennese playwright.

"Above the Law," in which she is
appearing at the Orpheum, is from the
pen of Brieux, noted French dramatist,
and Miss Grey is the first tragedienne
to give any of his productions in Eng-
lish. The only play actually written by
David Graham Phillips was prepared
for Miss Grey, who was an intimate
friend of the author. For her Phillips
wrote "The Worth of a Woman."

FRIDAY FAVORS SELLING
Campaign Manager Says This Is
His Lucky Day.

The primary election coming on
Friday will absolutely mean Ben
Selling's nomination for United States
Senator, said Mark Woodruff, cam-
paign manager for Mr. Selling, last
night.

"Friday has always been my lucky
day. I was born on Friday. My little
daughter was born on Friday, the third-
largest of my family. Every one I have
ever been connected with was begun or
consummated on Friday.

When I became associated with Mr.
Selling for the campaign, it was Friday
night, and the campaign is ending on
the same day of the week. Many people
would neither begin nor end a transac-
tion on that day because of the super-
stition connected with it, but after the
votes are counted tonight, every man
who wants to run for office in Oregon
will hope and pray that the thing com-
menced and ends on Friday."

CITY DANCE HALL PLANNED
Women Club Members Propose Mu-
nicipal Amusement Resort.

Appointment of a commission of six,
with the Mayor as an ex-officio mem-
ber, to take steps for providing public
places of amusement to offset evil in-
fluences of public dancehalls and simi-
lar entertainment resorts, was the plan
suggested by members of a committee
from the Council to Miss Valentine
Prichard and Mrs. Lola G. Baldwin,
representing the women's clubs of
Portland, in a conference Wednesday.

George L. Baker and Councilmen Men-
dell and Watkins represented the city.
The committee from the women's
clubs approved of the suggestion.
They said that they believed it
would meet with uniform approval
from all. If they return a favorable
report to the Council committee an
ordinance will be prepared calling for
the creation of such a commission.

RAILROAD LAWYER TALKS
C. H. Carey Would Change Hostile
Sentiment of People.

C. H. Carey, attorney for the North
Bank and other Hill lines, was the prin-
cipal speaker at the regular weekly
meeting of the Portland Transportation
Club at the Imperial Hotel Tues-
day afternoon. R. V. Holder, gen-
eral agent for the Chicago & North-
western Railroad, was the chairman of
the day. Mr. Carey urged the railway
employees to work for a better under-
standing between the railroads and the
public with the view of overcoming
some of the hostile sentiment now en-
tained by the people against the
carriers.

Members of the club will hold their
first smoker at the Multnomah Hotel
this evening. Speeches, music and elec-
tion returns will enliven the occasion.

The Multnomah Hotel Company has
made arrangements for a special ser-
vice to furnish election returns as fast
as these come in. They will be read
from the stage.

Reserve your table early!
Reserve your table early!
Reserve your table early!
Reserve your table early!
Reserve your table early!
Reserve your table early!

ELECTION RETURNS.
This Evening at the Arcadian
Garden.

Supporters Say He Will Be Nomi-
nated Commissioner.

Assertions that W. L. Lightner will
be nominated easily for County Com-
missioner to succeed himself were be-
ing made last night by the Lightner
supporters, following a canvass of the
situation. This fight is a five-handed
one and it is contended by the Lightner
forces that none of the opposing candi-
dates has developed sufficient strength
to cause a split.



VOTE FOR
W. C.
NORTH
Strongest Candidate
—for—
SHERIFF
BALLETT NO. 119

He is the only candidate
who has the courage to openly
denounce the anarchists and
other lawless element. He
means what he says and will
enforce the law if elected.

stood on his record as County Commis-
sioner during the past six years.

COUNTY DIVISION TALKED
Estacada and Oregon City Dis-
cuss Plans for Split.

ESTACADA, Or., April 15.—(Special.)
—A delegation of 12 members of the
Oregon City Commercial Club were en-
tertained at dinner here last evening
by the executive committee of the Es-
tacada County division movement. The
visitors declined to put themselves on
record as to whether the commercial
organization would favor East Clack-
amas in its attempt to cut away from
the western part. Local speakers drew
a parallel between Hood River and the
district proposed to be cut off here
and showed that the district has a
population of more than 7000 and an
assessed valuation of \$5,000,000, which
is larger in population than Curry,
Wheeler, Harney, Gilliam, Lake, Mor-
row, Sherman or Lincoln counties and
has more assessable property than
Curry, Grant or Wheeler and about the
same as Gilliam, Harney and Sherman
counties.

Oregon City speakers declared that
if they were residents of this section
they would unhesitatingly endorse the
movement for division.

The visitors stated they would sub-
mit a report to the commercial clubs
and report back to Estacada within a
week or ten days.

HILLSIDE PROPERTY SOLD
Regents Realty Company Buys Tract
of 55 Acres for \$78,400.

Another hillside residence develop-
ment project was assured yesterday
when the Regents Realty Company
purchased from the Lake View Realty
Associates a tract of 55 acres for \$78,
400. The property lies directly north
of Williams Heights and has front-
age on the Linton road. A large part
of the acreage is hillside property. The
purchasing company announces that
the tract will be subdivided into
homesites at once. Later standard im-
provements will be installed.

The lower portion of the tract is
level and is now in shape for building
operations. Contracts for sites
amounting to \$40,000 had been closed
previous to the purchase by the Re-
gents Realty Company.

The ferry of all Bank of England notes
is quickly detected, because of secret marks
which are constantly being changed. They
are visible only under the microscope.

"Justice and Equity to Every
Person."

VOTE TODAY
WILSON
FOR
SHERIFF

Portland Municipal
Association's Choice.

Will Give Us a
Clean Business Ad-
ministration, Will
Clean Out White
Slavery and Road
Houses, and Will Be
Firm in Indorsement
of the Law.

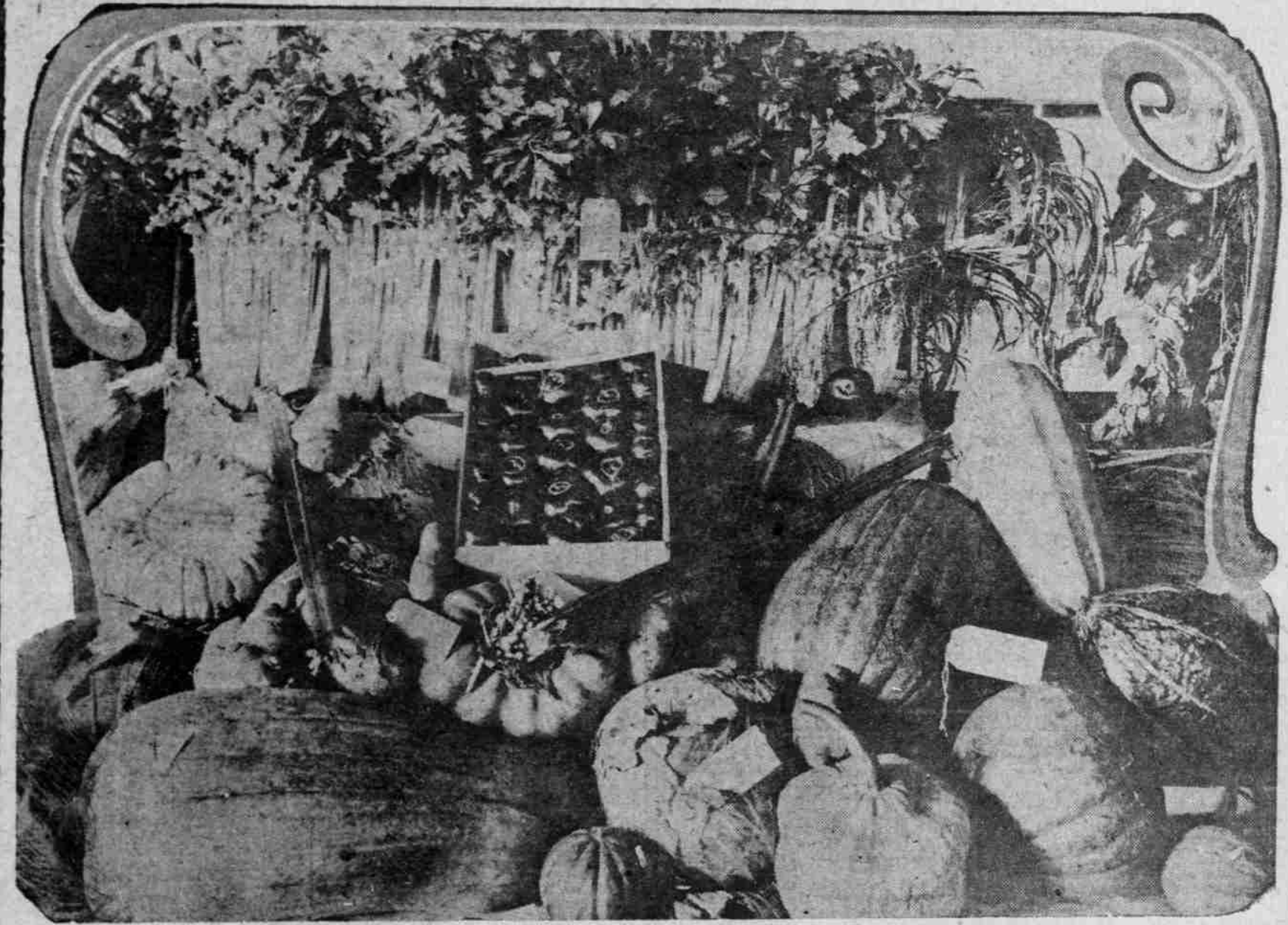


W. Y. MASTERS
Candidate for Republican Nomi-
nation for
Judge of Circuit Court
Department No. 4.
(Paid Advertisement.)

BUY A FARM FOR \$250

\$10 CASH, \$5 PER MONTH

At Knappa, Clatsop County



PEOPLE PAY HIGH PRICES FOR VEGETABLES—ASK YOUR WIFE

We are offering a tract of 905 acres of rich, fertile
land, situate near Knappa, Clatsop County, at the
uniform price of \$50 per acre.

—This land was picked out by one of the best soil
experts in the West. It is splendid deep, rich loam.
It is easily cleared. It is traversed by numerous
streams. It is well watered by innumerable springs.
Splendid roads serve it.

We know it is worth the money. You can get
away from the wage-slavery and the grind of this
great city if you will but try. Owing a good piece
of farm land will make you a better and more in-
dependent citizen.

You will always have a place to retire to in the
sunset of your life. No more ideal surroundings
exist anywhere. The climate is ideal. Only 15
minutes' walk from R. R. station. Only 12 miles
this side of that splendid market—Astoria.

Astoria Chamber of Commerce, on Page 40, Their 1912 Booklet, Says, Under the Heading "VEGETABLES":

"Celery, asparagus, cauliflower, cabbage, beets,
turnips, parsnips, rutabagas, potatoes, onions and
all table vegetables, including peas, beans, squash,
cucumbers, radishes, lettuce and spinach, yield abun-
dantly in Clatsop County. Onions yield 350 to 800
bushels per acre. Celery and capiflower as high as
\$1000 per acre on bottom land near Astoria.

"Carrots average 800 120-pound sacks to the acre;
turnips, rutabagas and kale average 60 to 80 tons
per acre. On uplands half these yields are obtained
but of better quality. There is a great opening for
the skilled men who will erect suitable houses and
force early growth of garden truck."

Your Choice of Any Parcel at \$50 Per Acre

It is time you secured a piece of land. Our land may not suit you but in Clatsop County you can certainly
find land that will. Come in. Let us tell you about it. Don't delay until the choice pieces are sold.

Clatsop County Land Inv. Co.

CHARLES DELFEL, Sales Agent—Second Floor, 212 Railway Exchange, on Stark, Bet. Third and Fourth

Excursion Fares East

THE TRUE
SCENIC ROUTE

Via
CANADIAN PACIFIC
RAILWAY

During the Summer season low round-trip rates
will be made to the principal destinations. A
few of the points quoted are:

Minneapolis	\$ 60.00
St. Paul	60.00
Chicago	72.50
St. Louis	79.00
Indianapolis	79.00
Detroit	82.50
New York	108.50
Baltimore	90.50
Philadelphia	108.50
Pittsburg	81.50
Boston	110.00
Portland, Me.	110.00
Ottawa, Ont.	103.00
Montreal, P. Q.	105.00

Stopovers Going and Returning. Final Return Limit October 31, 1912.
Have your tickets read one way through the Canadian Rockies. Your
itinerary should include stops at Banff, Glacier, Field, Lake Louise, The
Yoho and other resorts.

4 TRANSCONTINENTAL TRAINS DAILY

For Descriptive Matter and Further Particulars Apply at Third and Pine,
or Address
FRANK R. JOHNSON, General Agent
PORTLAND, OREGON