## GLOBES IN NATURE

 Why Raindrops and the Planeand Suns Are Round. THE FORCES OF ATTRACTION.

Ac a Crowd Gathers in a Cirolo Around in ojien of Interost, so Moleocular
and Gravitational Impultes in Mattor Act Toward \& Conter.
Falling riln forms fato spherten)
drops for the same reano
the that the




 which is is the forise that or moids the com. ponentat of bodiles together. .ts far great
er than that of tue attractlon of gravi
 each cave bowever, the resultant of all the atrustions between the tadividual
pariclece tia a force directed towurd the Center of manas
Cibet by the printile of tinertla time ts
 concerted the onger will be the ume
needed for the internal torces to kroup all the particles symmetrically around their common conter or mass. It tip opon this priepict that the old Motiten lead tis dropped from a great
 maseen, and durting their downward
 of their moleculee, whteh group the elives around a eommon center. ato small portlons the gravtitationni torgo them, beca abse gravitatito is is effee-
fol tive at treat dibtannces and througbout Yast mases, while oobeston, or molece.
lar attraction, in extremely innited wth regrand to toe space orer which it acts. Each molecule entrracta a Hetle group Goese in turn attract their tmmeduite
 the master force and quilckiy shappee And jutt as pherpoontul of water

 The entre ocean it it were gung out
tuto open mpace would become a g givn.

 It is by no aceldent that nill the
planets are spherical they bave aken that shape as tnevitably as an
loooes stope rolls down a steep bini. Their forms are not perfect spheres
because they have been subjected to vatside disturbing forces, such as the the
centrifugal effects of thelr rotation on centrifugal effects of their rotation on
thetr axer and the deformations pro-
duced lyy the atraction of duced by the attraction of other plavets
and of the sun. Even the beade of and of the sun. Even the heads of
comets ane spheroldal, altbongh they are bellered to consist of swarms of
anall bodies llike meteors. amall bodies like meteors, whone com
This tondency of masnes, whomen ponent parts or particles are free to
nove anook one another, to assume a Riobulur outline, is curiounly tllustrated
evea by crowds or awarms of sentlent beligs. Thus a nwarm of been when
kntlers close becomes aphertcal or ophervidal, susice that form tion bext
opled to thelose the greatest number

## Ef individualis.

spherical crowd certainly would take dis to choose their postions as freely Beugg coninned to one level, they an
namge themselves to ange themselves in a circle, whlech
is
he seetion of A sphere. Garrerk P Serviss in New York Joarnal.
T wee whention Chances. has to put himself in
frends."
"Yes, my dear."
"ifa weman rai
put hersef th the hands of ber we "I soppose so
Weil, 1 do not imagine many wo men wil run. Thak of taking suet
chances"-Loutsville Courlerjournat.
 the gut thks and to the courne of the
play fame oppoatte a deep, muddy pay tame oppoaite a deep, muade Dond Here the tinherent caotion of
MeNib aserted thelf. Ho appeared
tadiposed to continue. Vhat're yo continue.

Uncle Frank Nichols
Oregon Pioneer
"Uncle" Frank Nichols, of Tum-
alo, was the object of considerable
attention when in Portland recently attention when in Portland recentuly
attending the meeting of the Oregon attending the meeting of the Oregon
ploneer. One of the oldest men in
this part of the atate, he ls a frequen visitor to Bend and is well a frequent
own. The Oregonlan last weelz in
and ained the followlag article about
Mr. Nichols, which will bo of Interest to his friends and acquafintances in
this section. "En.
You folke" Frank Nichols. ant happening trom the 18 year ortd
Spanish war, or even yon who think
that the Civil War wes the dividing Ine in a more or less eventful existpice, how would you like to be hit
position to revert to the frat Mexi-
hn wat, rush to Californin in 49 or the gold
3.ones of yout mileSuch is the unique aisilnetion of Benjamin Franklla Nichols, the pat-
farch of the Tumalo fats in Certral oregon, a man wh, bears the weight
of hata 91 summers as Highty as tho
boys now stame border castry thetr knapascks and
orflea. riffes.
"Unete Frank,' as he is kaown throughout the length and bre:dth of the state, is hero to at tond the pinseers' reunton which opens tomor-
row. Ho expects to meet many tatter day friends-but not miny old
friends. Most of his old friends are sone-gone torever. He ts one or
the tast of his day and generation. Trip to Oregon Made in 1814. The Nichols fammly were amoni the arly settiors of Minsouri. Thisy
moved theic trom Tennessee as n promoved the.e trow Tecnessee as n pro-
tost againgt nlavery. When slavery
lavided Mlissouri they came to Oregon, crosoing the plains in 1844. The
inther of "Uncle Frank" was cugared
 the micatonary, njar Walla Walla.
Subaequontly the party had a peril ous trip down the Columbla poril-
on an
mprovised canoe. They landed Oregon City late. in June, 1845. The
oung Nichols hat le penter trade such ar th was in those
drys-from his father. dye- from his father, and got a job
bullding a house for "Father" John

4.ch In . Do not alouch.
If you stand straight and breath deeply, It will hetp you to keep your
chest up. It will also help to keep your bowels in good condition. If it is hard for you to sit up
atraight in your chatr, put a small stralght in your choir, put a smal
pillow behind you low down, that is in the small of the back. One of the common causes of conatipation an nervounneas is a nlouching position
Walk and atand with heels apari an

## Tuxedo's Grip

## by Walt Mason

Tuxedo is the gripping smoke, a boon to every buyer; Tuxedo is your pipe of English oak, of meerschaum, clay or briar, and fill it with the fragrant weed, the clay or briar, and fill it with the fragrant weed, the
choicest man can gather; and then you have a smoke, choicest man can gather; and then you have a smoke,
indeed; and are you glad? Well, rather. Tuxedo indeed; and are you glad? Well, rather. Tuxedo
has no kick or bite, suggests no "morning after;" its has no kick or bite, suggests no "morning after;" its mission is to bring delight, and
fill your heart with laughter. It caught the sunshine of the south, when it was green and growing, and brings that sunshine to your mouth, when out the smoke you're blowing. "Tuxedo's in a class alone," its smokers are declaring; "it has a fragrance all its own, that baffles all comparing." And thus it grips the men who smoke, and ho tion; their trusty briar pipes they stoke, and never know dejection. Coack Masons

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