

**Wood's Commercial College,**  
311 EAST CAPITOL STREET,  
Washington, D. C.

Established 1885 and heartily endorsed  
by its students.

**SUMMER SESSION.**

Now is a good time to commence. New  
classes formed every Monday.

**Proposition No. 1.**

Complete Course in Shorthand Type-  
writing, \$60. (This will entitle a per-  
son to instruction, day or evening, until  
proficient and position is secured.)

**Proposition No. 2.**

Complete Course in Book-keeping and  
English, \$50. (This will entitle a per-  
son to instruction, day or evening, until  
proficient and position is secured.)

**Proposition No. 3.**

Complete Course in Shorthand, Type-  
writing, Book-keeping, and any other  
subject the pupil may select, \$65. (This  
will entitle a person to instruction, day  
or evening, until proficient and position  
is secured.)

**Proposition No. 4.**

Complete Course of instruction in  
Typewriting, \$10. (This will entitle a  
person to instruction, day or evening,  
until proficient.)

**Proposition No. 5.**

Complete Course for Government Position,  
Civil Service or Census, \$10. (This  
will entitle a person to instruction, day  
or evening, until prepared to pass the  
examination.)

**Proposition No. 6.**

Complete Course in English Branches,  
\$50. (This will entitle a person to in-  
struction, day or evening until profi-  
cient.)

**Proposition No. 7.**

Preparation for College, including  
Latin, Greek, English and Mathematics.  
Private lessons or class instructions.  
Apply for rates.)

**Proposition No. 8.**

Instructions during May, June, July,  
August. Day sessions, \$20; three months,  
\$15. Evening sessions, \$12; three months,  
\$10.

**Proposition No. 9.**

Private and class instructions to coach  
public school pupils so they can enter  
next grade; three months, \$10; one  
month, \$4.

The rates given are for cash, but satis-  
factory arrangements may be made to  
pay in installments.

**WOOD'S COMMERCIAL COLLEGE.**

Gentlemen:  
I am indeed glad that I took the course  
in Stenography and Typewriting in your  
institution. After having attended five  
months, I could write one hundred words  
per minute.

I think all who conscientiously pursue  
their studies under your guidance will,  
in a short while, become thoroughly  
equipped stenographers.

I can certainly recommend Wood's  
Commercial College.

Very sincerely,  
JANIE H. EBERHARD.  
Washington, D. C., Nov. 10, 1899.

PROF. WOOD:  
Am delighted with your method of  
training pupils in the Civil Service  
Course.

As a teacher of Book-keeping you  
cannot be excelled; under your instruction  
it becomes an intensely interesting  
study instead of a "dry bug-bear of  
accounts."

For a good, practical business educa-  
tion, one must go to Wood's Commercial  
College.

Wishing you unbounded success, I am,  
Yours truly,

CLARA HARRIETT JONES.  
1012 I St., N.W., Washington, D. C.

To whom it may concern:

I advise all persons who have any idea  
of attending a business college to take a  
course at Wood's Commercial College,  
on account of its quick and easy systems  
in shorthand and type-writing and also  
its experienced teachers. I was a pupil  
of this College for five months in the  
Shorthand Department, when I was  
offered a situation as Court Reporter in  
West Virginia, and it was through this  
College that I was successful in my  
work. I think that any student ought to  
complete a course at this College in five  
or six months, and with a great deal of  
study and effort in much less time. The  
Professor is very successful in obtaining  
positions for his students and often gets  
the best places a stenographer can hold.  
I also consider it the best business col-  
lege in Washington and one of the best  
in the United States, if not the best.

JOHN WALKER FANTON.  
June 1, 1899.

**NEWSY CLEANINGS.**

There are 40,296 licensed dogs in Chi-  
cago.

New York's Episcopal Archdiocese  
will probably be divided for the eighth  
time.

A celluloid collar worn by Nathan  
Clausen, of Hempstead, L. I., caught  
fire from a cigar and terribly burned  
him.

Cholera is prevalent throughout Hy-  
derabad and in Bombay, in India.  
There are 5,685,000 persons receiving  
relief.

The tax rate of Boston, Mass., has  
been fixed at \$14.70, as against \$13.10  
last year. This is the largest rate  
since 1885.

Public land in Northern New Mex-  
ico was withdrawn from sale, in order  
to save the cliff dwellings from destruc-  
tion.

A thirteen and one-half-pound baby  
was born recently at Middletown,  
Conn., to Mrs. Michael Potterno, her-  
self but fourteen years old.

Oil has been dethroned from the  
firearms of the Chicago Union Trac-  
tion Company, and coal is to be sub-  
stituted. Economy is given as the  
reason for the change.

**QUEER-TINTED FLOWERS**

FLORICULTURISTS CHANGE NATURE'S  
COLORS TO SUIT THEIR FANCY.

Flowers Can Be Raised to Suit the De-  
mands of Fashion in Colors—Aniline  
Dyes Dissolved in Water and Stems  
Placed in the Solution.

Florists are displaying some remark-  
able flowers in their show windows—  
blue and green carnations, scarlet daf-  
fodils, pink lilies-of-the-valley and blue  
tulips. So startling are some of these  
new combinations of colors in old  
standard flowers that nobody ever  
thought of being giddy or vain in their  
dress that the mind is temporarily  
puzzled. Floriculture is certainly making  
tremendous strides every year, but one  
is hardly prepared to accept the belief  
that growers of flowers have it within  
their power to change and alter the  
natural colors of all blossoms to suit  
their will, or a passing whim of fash-  
ion.

Yet this is just what florists have suc-  
ceeded in doing, and in the future flow-  
ers can be raised to suit the demands  
of fashion in colors without much labor.  
Heretofore it has required years to  
raise a strain of carnations or roses that  
would produce a certain fashion-  
able shade, but now what required long  
time and close application of cultural  
methods can be accomplished by the  
florist in a few weeks. But the secret  
of the process should not be known if  
we would appreciate the new flowers  
of the season in all their gay colors,  
for the illusion once broken robs them  
of half their value.

The newly-colored flowers are not  
exactly dyed. Immersed in dye solu-  
tions the delicate blossoms refuse to  
take the colors. Every solution yet  
prepared for them has either blotted the  
leaves and petals, or destroyed them  
outright. For ten years now florists  
have been trying to concoct a dye  
mixture that the flowers would take  
acceptably, and not be injured by it,  
but all efforts in this direction have  
proved futile. Now it is discovered,  
however, that nearly all of our culti-  
vated plants will absorb aniline solu-  
tions through their stems, and under  
certain favorable conditions the blossoms  
will receive and retain the artificial  
colors communicated to them  
through their stalks and branches.

This secret once out extensive ex-  
periments were made by florists with  
all sorts of dye compounds, and the re-  
sult is apparent this season in an  
abundance of artificially colored flow-  
ers of all conceivable hues. Many of  
them are positively beautiful; others  
are attractive only by their oddity,  
and some are so incongruous as to of-  
fend a sense of the beautiful in nature.  
Nevertheless, the flowers thus colored  
will have their day, and fashion will  
decree that all blossoms must bend to  
her dictations in the future so far as  
the matter of coloration is concerned.

The process of coloring the flowers  
artificially is to dissolve aniline dyes  
in water to a light transparency, and  
then place the stems of the cut flowers  
in the liquid. The coloration cannot be  
accomplished by feeding the growing  
potted plants with the dyes, although  
when the roots are cut at the base  
they will sometimes absorb enough of  
the coloring matter to tinge the blossoms.  
Thus Roman hyacinths can be  
taken up from the ground, and by cut-  
ting a few of the smaller roots they  
can be made to change the colors of  
their blossoms slowly. Where the  
roots and stalks are unbroken, the sys-  
tem of little veins or vessels of the  
plants cannot reach the colored solu-  
tions, and consequently they undergo  
no apparent change. The present fash-  
ion is thus of necessity confined chiefly  
to cut flowers, and not to potted plants.

Under a microscope the action of the  
dye solution is interesting, and also  
instructive in showing the different  
veining of plants. The coloring matter  
is clearly visible through the micro-  
scope as it passes up the stem and  
through the leaves, petals and other  
parts of the flowers. The action in  
some cut flowers is very rapid. White  
tulips placed in the aniline solutions  
can be tinted pink, blue, green, or  
purple in a few hours. The water tubes  
of the plants begin to absorb the liquid  
as soon as the stems are placed in it,  
and it spreads in all directions, show-  
ing minutely the various courses of the  
veins. As the coloring matter branches  
out the veins grow smaller, until the  
extreme ends are reached, where they  
are very minute.

When the coloring matter reaches  
the blossoms of the plants its action is  
more important than when merely  
passing up the stems or leaves. Cer-  
tain parts of the flowers absorb the  
liquid more rapidly than others. Thus  
the Eucharis amazonica has its style  
dyed a deep red, while the flower shows  
no signs of coloring. In most flowers  
the pistils absorb the coloring matter  
first, and in the greatest quantity,  
showing the deepest tint. The daffodils  
and narcissi have their tubes and  
coronas colored more deeply than the  
petals. The abutilon has the calyx  
colored, but not the petals.

The difference in the general system  
of veining of plants is very noticeable  
when plants standing in aniline solu-  
tions are studied under the microscope.  
The snowdrops, for instance, show  
eight large veins or tubes at the base,  
and these after crossing the petal in  
parallel lines branch out fan-like at the  
tips, giving the rich pink margins that  
are so attractive. The veining of the  
Christmas roses is very different.  
Straight tubes cross and recross the  
petals until a perfect network of lines  
is formed, which when colored with  
red aniline dye suffuses the whole  
flower with a delicate shade of pink.

Most of our common flowers will  
absorb the aniline solutions in a few  
hours, and produce wonderful results.  
Yellow daffodils can be striped with  
scarlet in less than twelve hours; white

lilies can be turned to a pink or blue  
in less time, and even the large double  
white camelia can be tinted in a few  
hours. Cyclamens, snowdrops, hya-  
cintus, Christmas roses, tulips, Solo-  
mon's seal, daffodils, lilies-of-the-val-  
ley, carnations, camellias, callas and  
similar flowers are artificially colored  
by this process, and placed upon the  
market. Even the leaves of plants ab-  
sorb and retain the artificial colors,  
ivy leaves placed in an aniline solu-  
tion begin to color in a few hours, and  
the veins are made to stand out like  
small lines of red blood. The leaves of  
many other plants have been found to  
absorb the dyes just as readily as the  
ivy, and remarkable effects are ob-  
tained.

Aniline scarlet dissolved in water  
produces pink and scarlet in the flow-  
ers, and indigo carmine yields blue  
tints. When the two dyes are com-  
bined interesting results are obtained.  
In some flowers curious mottled effects  
are produced; in others the blossoms  
become pink, blue and purple in var-  
ious parts, and in a few distinct  
shades of purple suffuse the petals.  
Blue and yellow dyes invariably pro-  
duce greens in the flowers of the  
plants.

It is not quite known yet whether  
this coloration is due to capillary at-  
traction, or to some peculiar force in-  
herent in all plants. The process is  
certainly interesting, and, while at  
present its chief result is in enabling  
florists to color their flowers at will,  
it may yet have a practical bearing on  
horticultural developments. It is said  
to be of some value to florists now in  
distinguishing between tulips that will  
be of little real value and those that  
are highly prized. Tulips raised from  
seed are called "breeder tulips," and  
it takes six to seven years to tell  
whether they will be of the "flamed" or  
"feathered" varieties. When a  
grower may wish for the former, it is  
a little annoying to find that all of his  
stock is just the opposite at the end of  
six years of work. By immersing a  
few stalks of the tulips in aniline solu-  
tions, the grower can in six or twelve  
hours tell by the veining whether they  
are of the feathered or flamed variety.  
In this way the new process of color-  
ing flowers is of some practical impor-  
tance.—New York Independent.

**The Fly Family.**

Owing to the natural diffidence of  
flies, says Harvey Sutherland in Aus-  
lee's, not much is known of their fam-  
ily arrangements or how long they  
live after they get to be old enough to  
vote. It is estimated, though, that if  
papa and mamma of the early spring  
could hold out to attend a family  
reunion of their offspring, held in  
the latter part of August, upward of  
two millions of their own blood and  
kin would come to the picnic, not  
counting maggots in arms. Fortu-  
nately for them, papa and mamma do  
not live much more than a fortnight.  
Even a fly's perseverance would be  
unequal to the task of keeping track  
of two millions of descendants. As  
Artemus Ward says, "This is 2mth."

Fortunately for us, flies do not live  
much longer than a fortnight, for if  
they were long-lived and preserved  
their fecundity, man would soon be  
forced to look for some place where  
things were not quite so crowded.

**Dangerous Derelicts.**

Derelicts are far more often a source  
of deadly peril than of fortune.  
Wrecks that do not sink are usually  
timber-laden. These lie low in the  
water, with waves beating over them,  
dangerous as a reef in mid-ocean.  
Pine or deal is their usual cargo, and  
the water-soaked stuff is not worth  
the difficult task of salving. Still, it  
may be as well not to rashly pass such  
hulks.

Five years ago—in 1895—the steam-  
ship Chattahoochee, after a heavy  
storm, found a lumber vessel, water-  
logged and abandoned, off Cape Hat-  
teras, and towed her into Charleston  
harbor. Her cargo was choice Hon-  
duras mahogany, which sold for the  
pleasant little sum of \$10,000.—An-  
swers.

**General Chaffee's Name.**

General Chaffee, who is in command  
of the American forces in China, bears  
the unusual Christian names of Adna  
Romanza. Adna is from the Hebrew,  
and signifies pleasure, while Romanza  
is derived from the Italian, and in  
English is applied, in music, to a ten-  
der sentiment—a song without words.  
"It would be interesting to know,"  
says the Philadelphia Record, "how  
General Chaffee's parents, who were  
plain farmer folk, living in prosaic  
Central Ohio, came to give their son  
these peculiar names. This stern,  
matter-of-fact man of action would  
seem to have a name quite out of har-  
mony with his character."

**Misplaced Zeal.**

She stood at Arapahoe and Fifteenth  
streets, anxiously watching as car  
after car flew around the curve. Occa-  
sionally she darted toward the middle  
of the street excitedly, then returned  
and resumed her anxious watching.  
Finally a big, kind, clever policeman  
caught her by the arm just as a car  
passed, and literally carried her across  
with a rush. Then she looked up into  
his countenance, which was rosy with  
the consciousness of a noble act per-  
formed, and said:  
"Now, will you kindly take me back  
again? I wanted to catch that car."  
Denver (Col.) Times.

**Russia's Blind Persons.**

There are more than twice as many  
blind persons in Russia as in the whole  
of the rest of Europe. They number  
190,000, which is equivalent to two  
in every 1000 of the population. In  
France and England the proportion  
is not quite one per 1000.

Among the clocks which were seen  
at the Paris Exposition was one of the  
year 1580, which belonged to Henry, III.

**RELIABLE DAIRYMEN.**

**DIRECTORY OF LEGITIMATE DEALERS.**

The following dairymen are known to the Editor of the CITIZEN as reliable producers, who own their  
own herds of cattle and deliver their own product. There are no milk hucksters in this list.

**BENNING FARM DAIRY,**

J. P. REILLY, Proprietor.  
Benning, D. C.

Established 1892. Pure milk right from the  
farm served in sealed jars twice a day.  
Customers are invited to inspect my dairy  
at their pleasure.

**HILLOCK DAIRY,**

JOHN BERGLING, Proprietor.  
Mt. Olivet Road, D. C.

Established 1894. Pure milk served to my  
customers fresh from the dairy every  
morning.

**Chevy Chase Farm Dairy,**

GEO. A. WISE, Proprietor.  
Chevy Chase, Maryland.

Established 1881. I try to serve the very  
best quality of milk it is possible for a man  
to produce. My herd and dairy farm are  
open to inspection at all times.

**AGER'S FARM DAIRY,**

A. B. AGER, Proprietor.  
Hyattsville, Maryland.

Established 1879. I have a herd of thirty-  
five cattle—mostly Jersey's—and deliver  
whole milk fresh from the farm every  
morning.

**GUDE'S DAIRY,**

ALEX. GUDE, Proprietor.  
Hyattsville, Maryland.

Established 1884. Pure milk delivered  
fresh from the farm every morning.  
My dairy and herd will always bear  
inspection.

**OAK GROVE DAIRY,**

D. McCARTHY, Proprietor.  
Bladensburg Road, D. C.

Established 1895. Fresh milk delivered  
direct from my dairy farm every morning.  
Two deliveries a day contemplated soon.

**St. John's Park Dairy,**

Mary Harriet Hatcher, Prop.  
Brookland, D. C.

Established 1898. Pure milk delivered  
every morning. We invite an inspection of  
our place at all times.  
My milk for children a specialty.

**CHEVY CHASE DAIRY,**

H. G. CARROLL, Proprietor.  
Chevy Chase, Maryland.

Established 1897. Fresh milk direct from  
the farm served to customers every morning.  
An examination of my premises invited at  
all times.

**Woodside Farm Dairy.**

JOHN HERRIGAN, Proprietor.  
3601 O Street N. W.

Established in 1865. Pure Durham  
and Alderney milk from Woodside Farm  
Dairy, on the Ridge Road. Two deliv-  
eries daily. Prompt service.

**CEDAR GLEN DAIRY,**

P. H. HORN, Proprietor.  
Benning, D. C.

Established 1899. Milk delivered twice  
a day in Washin-gton.  
Special attention paid to milk for babies.

**GRAND VIEW DAIRY,**

JOHN S. ORRISON, Proprietor.  
Takoma Park, D. C.

Established 1895. The quality of milk I  
serve is gaining me new customers every  
day. My place will always bear in-  
spection.

**RUPPERT FARM DAIRY,**

J. O'KEEFE, Proprietor.  
Brightwood Avenue, D. C.

Established 1896. I own my own herd of  
cattle and make two deliveries a day.  
My dairy plant and milk will always  
bear inspection.

**BRIGHTWOOD DAIRY,**

MRS. C. ROBINSON, Proprietor.  
Brightwood, D. C.

Established 1886. We deliver morning's  
milk only every morning.  
Our night's milk is all sold to  
dealers.

**GRANBY FARM DAIRY,**

BARRETT BROS., Proprietors.  
Bunker Hill Road, Maryland.  
(P. O. Brookland, D. C.)

Pure milk and cream, delivered to any  
part of the city. Prompt delivery.  
Satisfaction guaranteed.

**Sligo Mill Road Dairy,**

ISAIAH KREGLO, Proprietor.  
Woodburn, D. C.

(P. O. Address, Mt. Pleasant, D. C.)  
Established 1898. I serve pure milk right  
straight from the farm every morning. An  
inspection of my methods and dairy solicited.

**JERSEY DAIRY,**

D. ALLMAN, Jr., Proprietor.  
2111 Benning Road.

Established in 1893. The present proprietor  
was born and brought up in the business.  
Has a herd of 27 Jersey cattle. Two deliv-  
eries a day throughout the city.

**Crystal Spring Dairy,**

HUGH McRAHON, Proprietor.  
Brightwood, D. C.

Established 1888. I have Jersey cows only  
and serve the very best milk I can produce.  
If you want to see a fine herd of cattle,  
come and see mine.

**HOYLE'S FARM DAIRY,**

MRS. A. J. HOYLE, Proprietor.  
Congress Heights, D. C.

Established 1894. We serve first-class milk  
all bottled on the farm. Dairy always open  
to inspection.

**Buena Vista Dairy,**

O. A. LANDON, Proprietor.  
Suitland Road, near Suitland, Md.

Established in 1880. I am on the farm  
with fifty head of cattle and deliver only  
pure milk that will always bear in-  
spection.

**SUITLAND DAIRY,**

E. L. HILL, Proprietor.  
Suitland, Maryland.

Established 1898. Pure milk straight from  
the farm delivered every morning.  
Milk for Babies and Children a specialty.

**CHILLUM FARM DAIRY,**

WM. McKAY, Proprietor.  
Woodburn, (Terra Cotta), D. C.

Established 1880. I serve pure milk right  
from the farm every morning.  
I think the best is none too good for  
my customers.

**Douglas Place Farm Dairy**

EDW. MANKHAM, Proprietor.  
Douglas Place, Benning Road, D. C.

Established 1898. I spare neither pains  
nor expense in trying to produce milk that  
is A No. 1 in quality. Plant always open to  
inspection.

**TERRELL'S DAIRY.**

F. TERRELL, Proprietor.  
Arlington, Virginia.

Established 1891. I serve milk straight  
from the farm every morning. My milk will  
stand the test every time.

**Glen Ellen Farm Dairy,**

GEO. T. KNOTT, Proprietor.  
Conquit Road, D. C.

Established 1888. Milk from my dairy is  
guaranteed to be both clean and pure.  
I always solicit the closest inspection.

**GREEN HILL DAIRY,**

W. B. WILLIAMS, Proprietor.  
Riggs Farm, Maryland.  
(P. O. Address, Chillum, Md.)

Established 1898. I serve pure milk straight  
from the old established Riggs Farm every  
morning. Come out and inspect the place  
at any time.

**PAYNE'S FARM DAIRY,**

M. J. PAYNE, Proprietor.  
Bladensburg, Maryland.

Established 1896. It is my aim to serve  
my customers with the very best quality  
of milk. I invite an inspection at any  
time.

**PALISADES DAIRY,**

W. L. MALONE, Proprietor.  
[Conduit Road, D. C.]

Established 1892. Pure milk and cream  
served in any part of the city every  
morning. All orders by mail promptly  
attended to.

**PERSISTENT  
ADVERTISING  
BRINGS  
SUCCESS.**

Your Advertisement  
in this Space would  
be seen by many  
readers.

IF YOU WANT TRADE,  
SECURE THE SPACE.