

"Monitor"
Automatic Acetylene
Generators.

WALMSLEY FULLER & CO

Science Apparatus
Manufacturers,
134-136 Wabash Avenue.

Copy
THE INDICATOR

Chicago,

Chicago, May 12th, 1883.

The University of Chicago is about to add to its well patronized departments of Law, Medicine and Divinity, a department of Music, which will be placed on an equal footing with the others in conferring the degrees of Bachelor, Master and Doctor upon those otherwise qualified. The degree of Doctor of Music has been frequently given by collegiate institutions, as that of Doctor of Laws was given to one of our ex-presidents lately, simply "for the style of the thing." The Chicago University, however, in exacting an examination preliminary to the conferring of its degrees is ranking itself with the Universities of Oxford and Cambridge. Hence its doctorate will be something better than an empty honor. One of the most earnest supporters of the contemplated move by the University is Mr. H. F. Fuller, of our city. Enjoying since boyhood every advantage that wealth and cultured family could bring him, he has supplemented an excellent home education by extensive study abroad. At an early age he exhibited a taste for music. This has now ripened into a well developed power of composition, which his literary and scientific training ably augments. In recognition of his scholastic and musical acquirements, the University tendered him the degree of Doctor of Music. In response to this and in keeping with the requirements of European institutions, Mr. Fuller had a number of his compositions performed at his home last Wednesday evening. Special invitations were issued by Mrs. H. W. Fuller to the members of the faculty of the University and a few musical friends to meet her at the palatial home of the family--470 North State Street--where the following choice programme was rendered:

1. Piano and organ--Adagio.....Kalliwoda
Miss Adele Geiser and Mr. Fuller.
2. Organ--AndanteH. F. Fuller
Mr. Fuller.
3. a Recitative--"Ye People Rend Your Hearts," }Elijah
b Aria--"If with All Your Hearts." }Dr. Cronin.
4. Quartette--"Ave Verum,".....H. F. Fuller
Misses Street and Martin, Mrs Johnson, Dr. Cronin,
Mr. Greenleaf.
5. Piano--"Tanhauser,".....Wagner-Liszt
Miss Geiser.
6. Quartette--"Agnus Dei," H. F. Fuller
Quartette
7. Song--"Frulingsnacht,".....Jensen
Mrs. O.K. Johnson.
8. Piano--"Gavotte,"..... H. F. Fuller
Miss Geiser
9. Song--"Two Grenadiers,".....Schumann
Mr. Greenleaf.
10. Quartette--"Benedictus,".....H. F. Fuller
Quartette.

194-195 West Main Street
Lancaster, Pennsylvania

“monitors”
automated versions
of themselves

Chicago.

THE INDICATOR

Garrison Ms. 1849, 1883

- | | | |
|-----|---|--------------|
| 1. | PIANO AND ORGAN--ABASIO
H. E. Miller | KELLY |
| 2. | ORGAN--ANDREWS
H. E. Miller | H. E. Miller |
| 3. | PIANO--"IT WITH ALL YOUR HEART"
H. E. Miller | Mrs. KELLY |
| 4. | PIANO--"Ave MARIA"
H. E. Miller | Mrs. GREENE |
| 5. | PIANO--"MISSING YOU"
H. E. Miller | DR. GOURIN |
| 6. | PIANO--"TOMORROW"
H. E. Miller | DR. GOURIN |
| 7. | SONG--"BRINGING DOWN"
H. E. Miller | JENNER |
| 8. | PIANO--"GENTLE"
H. E. Miller | Mrs. GRIER |
| 9. | SONG--"TWO GRANDMAES"
H. E. Miller | Mrs. GREENE |
| 10. | PIANO--"BENEDECTUS"
H. E. Miller | Mrs. GREENE |

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Chicago,

11. Song--"Were I am Dream,".....West
Miss Street.
12. Song.....
Miss Martin.
13. Song--"Bleib bei mir,".....Ruchardt
Dr. Cronin.

The style of Mr. Fuller's sacred compositions is that of the English school. They are churchly and were written with the view of their performance by cathedral choirs. The singers were delighted with the vocal structure and harmony of music and text. All present congratulated the talented young composer, who meekly heard his praise from those of whose criticism he was proud. At the conclusion of the programme a bounteous repast was provided for the guests. Among those present were: Professors Stuart, Olson, Rev. Dr. Ellis and wife, Mr. & Mrs. Pearson, Mr. Engle and wife, Rev. Mr. Lewis La Grange, the Misses Martin, Mr. and Mrs. O. K. Johnson, Dr. P. H. Cronin, Mrs. Case, Miss Street, Mr. Pierson and Mr. Greenleaf. Regrets were received from Prof. Swing, while the fearful storm prevented other invited ones from being present.

I have the original of this as printed.
N.F.F.

Science Exhibitions
Gymnastique
194-195 Meudon Avenue.

"Monitors"
Automobile Association
Gymnastique

Artistic Gymnastics

Chicago

Ward.....	Song--"Were I as Dear", Miss Street	11.
.....	Song..... Miss Martin	12.
Romanski.....	Song--"Help me with", Dr. Groulx	13.

This article is a short one to fit in
English good. They are originally in French with the
of their performances by categories of age. The
be with the voice of music and memory based
presented considerable time from the
this basis from those of those
classical to the popular was based on
among those present were: Professor Sturz, Oscar, Rev.
Dr. H. Lewis La Grange, Mr. & Mrs. Pearson, Mr. and Mrs. O. N. Green
Mr. Pease Dr. Gause, Miss Street, Mr. Pearson and Mr.
Dr. P. H. Groulx, Mrs. Gause, Miss Street, Miss Street
Jesi. Results were received from Dr. Groulx, Miss Street
from present after having attended

W.F.H.

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134-136 Wabash Avenue.

(COPY)

Chicago,

Chicago, December 12th, 1883.

Dr. Galusha Anderson,
President University of Chicago,
City.

Dear Sir:--

In accordance with the request you made some time ago that I prepare a course of study and examination in music for the University, I now enclose the first draft of such course.

In establishing these degrees for the first time outside of England, it is of the utmost importance that the standard of that country at least be retained. x x x x x x x . My idea is to have a draft of a course with explanations and requisites printed (at my own expense) to be bound up with the catalogue.

I trust the plan will meet with your approval and will do all I can to advance the idea.

Please let me know when it will be convenient to talk the matter over with you. Of course the printed draft will be in the best English, systematically divided into sections and paragraphs with marginal notes, references etc.

Hoping I may co-operate with you in this most useful movement I remain,

Yours very truly,

H. F. Fuller,

P.S. Students at the Episcopal Theological Seminary will be obliged to study music to a certain extent.

Spurious evidence
of multicolored
watercolor paper
was introduced
into the trial.

"retinoM"
encrytooA oitamotuA
sundanomD

(GOPA) Chicago

Chicago, December 15th, 1883.

„pozdrav Andělku.“

Presbyterian University of Chicago

一七四

Dear Sirs:—We are sending you herewith a copy of our letter to you of the 2nd instant.

and the other two were to come to us in the same way.

... to such extent that the election was won by Stevenson.

To obtain more time for the necessary research and analysis of animal data in

(Ja) bejuring sejiaiupes bns snoitsansiqxe njiw earwoe s to ftsib s

own expenses) so as to provide for the payment of his debts.

His ob His bns favorite now with team His msig and taught I

I can't see the source of this.

Please see [the KDDC map](#) if you would like to find the convenience store nearest to your zip code.

~~ent ni ad liiw tisib beftiq adz easnos 10 .gov ntiw revo reftsm
adzusmawt has amitayn adz tisib 10 .gov ntiw revo reftsm~~

...je aconetejte ,zeton Imitism nitiw

Group 1 may co-operate with you in this matter

1. *Планета Земля* (1978) — документальный фильм о планете Земля.

YOMDA VĒLĀ ĢĒRĀ

H. E. HUTTER

.2.9

Students at the Ecological Seminar will be

•ПЕРЕДАЧА ПОДСИЛЕНИЯ В ОБРАЗУЮЩИХ СОСТАВЛЯЮЩИХ

5 Oakley St. Hastings
Chelsea S. L.
Mar 10/96

(H.A.)

To the Chancellor of the University of
Chicago.
gth.

~~D.G.~~ The National University of
your city has conferred on me
the degree of LL.D. for services
to literature. I have not accepted.
The representative here claims £20
for fees. I have paid my
two guineas & find there are ~~eighteen~~
more to pay. I did not
mind that, but is the money
all right? The Captain to you twice
Dr Mullum who preached several
times for us last summer

that I had had the degree offered.

that I had had the degree offered.
In my next Name my name, but I am
pastor of a large West End Church, and author
of "Some Characters of Sepulture," "Back-street"
of Sacred History, "Back Streets," "Sunday after-
noons," "Don't worry," &c. The last is
the world; "Men reward the 2d. Master,
but reward you more." — *John G. K.*
John G. K.

Mr. June went on the
Character of the University.
He knows that I also have
much to lose by wearying any
but a good title.

I have applied to your
Embassy but they refer
me to Mr. Bullock. I am
in Chicago. His reply
does not seem quite clear
to me. Hence I venture
to trouble you.

I may say it is a little
awkward because supposing
the proposal was all
right I had let it out

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Chicago,

Copy of original first draft of musical course for the University of Chicago prepared by H. F. Fuller at the request of the President.

Chicago, December 11th, 1883.

University of Chicago, Musical Department under the direction of H. F. Fuller.

The degrees conferred in this department by the University are,

Bachelor of Music Mus. Bac.

Doctor of Music Mus. Doc.

"The degree of Master as in "Arts" is not given in music. At Cambridge, the degree [Mus. Bac.] is conferred next in seniority to that of Master of Arts. In Oxford and Dublin this is the lowest step in the scale of graduates" (Dict. Music Stainer pp 42).

Those wishing to become candidates for the above degrees in this University "must lay before the Director a diploma or other satisfactory evidence that they are graduates of some other University or College or a certificate from the President that they have passed satisfactory examinations in the English language and Literature and in the first principles of Rhetoric, History, Mental and Moral Philosophy, Physics and in the Latin" language (or some modern language) and Mathematics.

The rules of a candidate for degrees are the same as at Oxford. For degree of Mus. Bac. "candidates must,

1. Pass a preliminary examination (partly in writing and partly in viva voce) in Harmony and Counterpoint in not more than four parts. They have then,
2. To present to the professor of music a vocal composi-

July 1974

Chicago

Copy to original till course for the University
of Chicago presented by H. H. Miller at the request of the
President.

Chicago, December 11th, 1883.

University of Chicago, Faculty Department under the direction of
H. H. Miller.

The degree conferred by the University is as
Ms. Bsc.

Doctor of Laws

At the request of "A. A." as Master of the degree of "B.A."

Graduate in law conferred by [Ms. Bsc], the degree, the cause of
which is as follows: In October and April this year he
was elected to the office of "Master of the Faculty of
Laws".

This University has been founded for the promotion of
the study of some subjects of law and other subjects
of science and literature.

The Master of the Faculty of Law is appointed by the
University to manage its affairs and to represent it
in all its external relations.

The Master of the Faculty of Law is appointed by the
University to manage its affairs and to represent it
in all its external relations.

The Master of the Faculty of Law is appointed by the
University to manage its affairs and to represent it
in all its external relations.

The Master of the Faculty of Law is appointed by the
University to manage its affairs and to represent it
in all its external relations.

If. Pass a bill amending the same.

for the Master of the Faculty of Law.

To present to the Professor of Modern Composition.

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WALMSLEY, FULLER & CO.

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134-136 Wabash Avenue.

Chicago,

-2-

tien containing pure five part Harmony and good Fugal Counterpoint with accompaniment for at least a quintet string band of such length as to occupy from 20 to 40 minutes if it were performed in public; performance not required.

3. The second examination follows: x x x x
Embracing, Harmony, Counterpoint in five parts, Canon, Imitation, Fugue, Form in Composition, Musical History, and a critical knowledge of full scores for certain standard compositions". (Dict. Music, Grove, pp 121).

Candidates must be members of the University, but are not required to take studies outside of the Musical Department, if section one above has been complied with. Those who do not present diploma or certificate of graduation from some University or College, or who cannot pass the examination required for the candidature must take those studies in which they are deficient in the other courses of the University but are not to be considered as candidates, although pursuing their musical studies contemporaneously.

A certificate of graduation only will be given to those not complying with section one or who take the musical course alone.

As at Cambridge "in addition to the above, knowledge of quality pitch and composition of various instruments is required" (Dict. Music, Grove, pps 451-52). And as at Trinity College, Dublin, the degree of Mus. Bac. "is intended to show that a certain practical knowledge of music has been attained to take charge of a choir or officiate in cathedral or church services" (Dict. Music Grove pp 121).

میانہ مکانیکی
و انسانی کارکرد

Automatic Adapters for Monitors

Григорий

Chicago.

-S-

• 151

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TULLER CO.

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134-136 Wabash Avenue.

Chicago,

-3-

The degree of Music Doctor follows that of Mus. Bac. at Oxford and Cambridge after an interval of five years. This University, however, follows the custom of Dublin and confers degrees as soon as the conditions have been fulfilled which are the same as at Oxford, viz: "Candidates must compose and send in to the Professor a vocal composition secular or sacred containing 8 part Harmony and good 8 part Fugal Counterpoint with accompaniment for full orchestra of such a length as to occupy from 40 to 60 minutes in performance. The exercises having been approved by the professor, an examination follows embracing the following steps. Harmony, 8 part Counterpoint Canon, Imitation &c. in 8 parts, Fugue, Form in Composition, Instrumentation, Musical History, critical knowledge of scores of standard works of great composers and Acoustics. After duly passing this examination (which is strictly in writing) the candidate must have his exercise publicly performed in [Chicago] with complete band and chorus at his own expense and must deposit the MS. full score in the Library (Dict. Music, Grove, pp 451-52).

The requirements of candidature for this degree are the same as for the degree of Mus. Bac.

The following is the course of study. The degree of Mus. Bac. is given at the end of the second year and that of Mus. Doc. at the end of the third year.

194-198 Waukegan Avenue
Waukegan, Illinois
Second Apartment

"Motor"
Automobile Association
General

Mr. & Mrs. G. L. Johnson

Chicago

-3-

Dear Mr. & Mrs. G. L. Johnson,
I am enclosing a copy of my letter to Mrs. Doc. Jr. of October 20th.
I have had the pleasure of meeting Mr. & Mrs. G. L. Johnson at the University of Michigan. They are a very pleasant couple and I hope they will be happy in their new home. I would like to thank you for your kind invitation to speak at the University of Michigan. I am sure it will be a great success. Please let me know if there is anything I can do to help you.
Yours very truly,
John D. Jones

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Manufacturers,
134-136 Wabash Avenue.

Chicago,

-4-

First Year.

First Term.

- 1 Notation
- 2 Harmony
- 3 Piano

Second Term.

- 1 Harmony
- 2 Counterpoint
- 3 Voice

Third Term

- 1 Harmony
- 2 Counterpoint
- 3 Organ.

Second Year.

- 1 Canon
- 2 Plain Song
- 3 Chorus

- 1 Fugue
- 2 History
- 3 Instrumentation

- 1 Form
- 2 ^LAsthetics
- 3 Instrumentation

Third Year

- 1 Counterpoint, Canon.
- 2 Acoustics
- 3 Instrumentation

- 1 Fugue
- 2 Philosophy
- 3 Criticism

- 1 Preparation
- 2 for public
- 3 Performance.

ENTREPRENEURIAL
INNOVATION IN
CHINESE FIRMS

"TOTIOM"
oneirov Adyamora
etotom

Chicago

- 3 -

Highway Year

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Chicago,

-5-

There is more quackery practiced in music than in almost any other art or profession. To counteract the evil tendencies of superficiality "stricter regulation of the fashion now established with a view to giving more genuine character to these degrees".
(Dict. Music, Grove, pps 451-52).

The degrees are conferred at Commencement and are sometime given honorary.

Persons may prepare where they will, but section one must be complied with.

The University hopes here degrees in music will be sought as those of foreign Universities, the requirements being the same.

This is the only University outside of England which confers both degrees in music.

194-198 Wadsworth Avenue
Montgomery,
Connecticut

"Montgomery"
Montgomery,
Connecticut

Mr. Miller

Chicago

-8-

There is more damage beyond than in the
area to five buildings of construction. Other six of moderate
size were not damaged to the extent "slight" damage
."severe" extent of extensive damage being of very little
value.

(Dale, Maine, Grove, D.C. 421-25)

The damage was caused by the collapse of the roof
of the building.
Persons may be present at the scene of the accident
as they are in the vicinity of the building.
There is no information available to indicate if
any persons were injured or killed.
The building is located in the city of New York
and appears to be in good condition.
There is no information available to indicate if
any persons were injured or killed.

Times-Herald, Nov. 29'96
Chicago

24

TH

CAN NOW USE THE NEW GAS.

Professor Fuller, a Chicago Scien-
tist, Invents an Appliance to
Utilize Acetylene.

PROFESSOR H. F. FULLER, M. A.,
F. S. Sc., of Chicago secured a few
days ago the patent for a generator
by means of which the use of that ex-
traordinary illuminating gas called
acetylene has been made a practical reality.
It is due to the efforts of Professor Fuller
as a scientist and inventor that this gas, so
recently discovered to be of untold economic
value in many of the practical arts, will
probably supersede all other forms of artifi-
cial lighting.

The value of Professor Fuller's invention
will only be appreciated, however, after a
survey of the properties, possibilities, and
merit of the illuminant for which it is in-
tended.

Acetylene gas, as it is known to-day, is re-
garded in a far different light by the scientific
world of chemists than it has been in the
past fifty years by any experimenters. It
has really been known since the time of Sir
Humphrey Davy, and was experimented upon
by that illustrious baronet among others of
the innumerable heavy and light carburetted
hydrogens. The existence of acetyl-
ene was discovered about 1820, but in all the
intervening years since that time, up to two
years ago, its properties were supposititious
and consequently its manufacture impossi-
ble and unthought of.

The discovery, however, of the illuminating
properties of this new gas was made just two
years ago, and, like a good many of the
important discoveries which have been made
within recent years, it was partly an acci-
dent and partly due to the pre-existence of
the electrical current. T. L. Wilson, a chem-
ist in Esprey, N. C., was the man who first
made known to the world that it could be
produced in large quantities for commercial
purposes at a very small cost. He was ex-
perimenting one day in his laboratory to
form an alloy of calcium by fusing coal dust
and lime in an electric furnace. The product
of his labor, a heavy semimetallic, crystalline
mass, he examined, and found not to be the
substance which he sought for. So he
cast the whole into a bucket of water. A vio-
lent effervescence immediately ensued, and a
heavy, colorless gas, with the characteristic
of garlic, arose. He tested it with a taper, and
it burned with a brilliant white flame. By
further investigation he found that the prod-
uct of the powdered coal and lime thus fused
together in the electric arc was calcic carbide.
Still further he found that by the simple ad-
dition of water to this carbide the hydrogen
of the water combined with the carbon, form-
ing the gas acetylene, while the oxygen of the
water combined with the calcium and formed
the precipitate lime. From that small but
important beginning there has arisen a
gigantic enterprise. Factories for the manu-
facture of the carbide have been established
in various parts of the country, notably at
Esprey, N. C.; Niagara Falls, St. Cathér-
ine's, Ontario; La Porte, N. Y., and Appleton,
Wis. It is at these various places that the
solid carbide is made, from which, by the
simple addition of water, the gas acetylene
is generated when desired, a gas which from
its chemical significance is purely a hydro-
carbon. At the carbide factories the degrees
of heat used for fusion are about 5,000, or
500 electrical horse power, by means of which
a ton and a half of the substance can be
manufactured a day.

The acetylene gas is offered to the market
in two forms. The first and more popular
one is that of the carbide itself, together
with a sheet iron generator, and the second
form is that of the compressed gas which
has been generated and liquified, then placed
in seamless steel tubing.

The method of liquifying the gas was per-
fected by a noted chemist in the east. It is
put in cylinders under 600 pounds of pressure
to the square inch, and can be shipped any-
where. It is sold like any illuminating fluid,
although it is weighed by solid rather than
by liquid measure. This liquid acetyl-
ene is contained in the ordinary seamless
steel tubing used commonly as carbonic acid
cylinders and tested to 3,700 pounds pressure.
Each cylinder is six inches in diameter and
four and one-half feet long. As soon as the
valve is opened, the gas begins to generate.
The cylinder, containing twenty pounds of
liquid, can be connected with the ordinary
gas pipes in the house, and will last three
months in a ten-room house, and is equal to
9,000 feet of city gas.

The gas in this form has been discovered
by many to be dangerous on account of its
remarkable explosive qualities, due, how-
ever, in almost every case to careless and in-
competent handling. Formerly the old pinch
gas valve was used. Now Professor Fuller
has invented a new valve for the reduction
of the fluid pressure and the alleviation of
danger. The gas is run through this dia-
phragm reduction valve after going into the
main feed pipe, and reduced to a two-ounce
pressure, identical with the pressure of city
gas.

However, though this may seem an
efficacious and desirable means of using
the gas, as well as a convenient one,
the use of the solid carbide will prob-
ably surpass it because of the invention
of Professor Fuller's accompanying
safety, automatic generator. It is by
means of this apparatus that acetylene will
without a doubt be made the illuminant par
excellence throughout the country. It con-
sists of two cylinders, one within the other.
The gasometer or inner cylinder is free to
move within the outer sheet iron tank, and in
the top carries the loading device for the
carbide, which is introduced through a clamp
or screw-cap, and a suitable outlet is pro-
vided for the gas, which is generated as soon
as the gasometer, filled with carbide, sinks to
the level of the water in the tank. If more
gas is generated than is used at once, the
pressure of the gas forces the water away
from the calcic carbide, and generation al-
most ceases, continuing only slightly, owing
to the water held by capillary attraction and
as vapor. This automatic genera^r is at-
tached to the main supply pipe of the house
and the ordinary gaspipes utilized.

At the local offices of the Acetylene Gas
Company exhibitions are given showing its
great superiority over coal gas and electricity.
The burner supplied for the consump-
tion of the gas uses up one-half cubic foot
per hour, and is equivalent to 125 candles in
illuminating power, while the ordinary city
gas burner, consuming five cubic feet, gives
twenty candle power, and the incandescent
lamps fifteen candle power. Acetylene gas
burns with a flame, the light of which re-
sembles that of the sun more than any other
known illuminant. Under its rays, which
are the purest white, all colors and shades
are accurately distinguishable.

The power of the light can be imagined
when, after placing a large incandescent
lamp of 100 candle power in the white glow
of one small one-foot burner using acetylene,
it will cast a shadow. And the so-called in-
candescent wonder looks like merely an in-
effectual "red hot hairpin," so intense is the
rival light of the acetylene.

Acetylene presents a hygienic advantage
over other gases on account of its lack of
heat. Six five-foot flames of ordinary gas
use nominally thirty cubic feet of gas to
give as much light as one flame burning one
cubic foot of acetylene, but really the six five-
foot burners use over forty-five feet of gas
as compared with one of acetylene. Thus it
is evident that the amount of heat delivered
into a room from acetylene is less than one-
thirtieth that of ordinary gas, or about the
same as the heat from the bulb of an incan-
descent lamp. This practically amounts to
nothing in the effect upon the temperature
of a room. The combustion, furthermore,
is complete and total, no portion of the gas es-
caping to vitiate the air of an apartment.

Although acetylene will asphyxiate the
same as ordinary gas, it is less dangerous
because its distinctive odor gives immedi-
ate notice of its presence. Unlike coal gas,
which is somniferous, or water gas, which is
without odor, it has a pungent, penetrating
smell, which gives notice of leakage long
before dangerous proportions are reached.

The economic advantages are manifold.
The cost of the acetylene light is much less
per candle power than ordinary gaslight.
At 15 cents per pound for carbide, the gas
costs 3 cents per cubic foot. Approximately,
it is but two-thirds the cost of city gas.

In large quantities the carbide can be
procured even cheaper, for 10 cents a
pound. The demand for it at present,
however, is so great and the difficulty of pro-
curing ingredients for the manufacture so
difficult that the price will remain the same
and not become cheaper, as has been antici-
pated. Another advantage lies in its white-
ness. All work can be done at night with the

use acetylene which hitherto had to be de-
ferred until daylight. In surgical, dental
and microscopic work it shows realities as
they are, and prevents mistakes in nocturnal
examinations.

The practical applications of acetylene are
increasing daily. It is used not only for do-
mestic illuminating purposes, but its ad-
vantage for halls, churches, theaters, hotels,
and gardens has been effectually demon-
strated. It is now used extensively in whole
towns, villages and cities in the west. For
the special lighting of boats, railway and
street cars, as well as elevators, lighthouses
and signal stations, it is rapidly pushing out
other forms of illuminating power, even the
Edison lamp. Furthermore, the chemical
rays of the acetylene light are such as to
adapt it readily to photography, both in re-
gard to the exposure of the negatives and the
printing of them. It is already in use in one
large gallery in Chicago with most success-
ful results, and has comparatively displaced
both the arc light and solar lantern for the
making of enlargements. Its steadiness and
uniformity are invariable; consequently it
will undoubtedly become the standard unit
for photo-metric measurements, displacing
the old, uncertain candle power. Scientists
everywhere approve of its adoption as a
standard.

The further use of acetylene in domestic
economy is soon to be demonstrated. By
the introduction of a certain quantity of air
into the gas a hot flame can be obtained, suf-
ficient for cooking purposes of any extent.
Likewise, its use in house heating is a rec-
ognized fact. Its practicability, however,
is still a matter of speculation. With the in-
troduction of the proper amount of air it is
said that a pound of acetylene is convertible
into 11,923 heat units in the centigrade
kilogramme system.

Professor Fuller is experimenting to find
the various practical probabilities in the use
of the gas. He is a chemist whose ability is
widely known, and great results are expect-
ed from his master hand. He is a graduate
of the University of Chicago, having taken
a master's degree at that institution, and he
is also a fellow of the Scientific Society of
London.

claimed that \$1.70 had been bid there for six car-
goes good milling wheat, and that mills were
paying \$1.65 for all the good wheat to be had.
It looked as if somebody, because of the dis-
tance, was trying to impose on Chicago as to the
San Francisco situation. The official quotation
No. 1 spot wheat at San Francisco was \$1.48,
and even the May price dropped under \$1.61, a
decline from Friday night of 1½c.

Rye yesterday lost 3c of the advance made
Friday, May closing at 45c, against 48c Friday.
The speculative interest seemed suddenly to
dwindle.

President Dee of the Chicago Packing and Pro-
vision Company was asked what he thought of the
statement ascribed to Secretary of Agriculture Morton that American packers were not
participating as they ought to in the profits from the
increased consumption of hog products in Great Britain, nor keeping abreast of the Danish
and Canadian packers. President Dee said: "I
doubt whether Secretary Morton said anything of
the sort. American exports of hog product have
greatly increased, and the secretary would be
apt to know that. The fact that the Danish and
Canadian packers get a higher price for their
product is not due to enterprise. The Danish and
Canadian hog makes a meat more to the fancy of
the Englishmen than our western corn-fed animal.
That is simply the result of the feeding.
We take the same hog, but the corn changes its
character, and makes it fatter than the English-
men fancy. The Canadian's hog suits better be-
cause he does not feed corn. We even have a hog
in Texas which makes a better English meat
than the hog raised in the corn belt, and the reason
of it is that the Texas hog does not get so much
corn, mainly for the reason that there is not so
much corn to give him."

NOW AND THEN

Now we are sending 300 to 400 per cent annually
to Chicago in bi-monthly cash dividends. A few
years ago we got our first customer here.

THEN

People doubted our ability, honesty and Sys-
tematic Speculation by the Dean Safe System. Six
years have proven to the public that to avoid risk
and grow rich in Wall street, the E. S. Dean Co.
are the people to deal with. Capital \$1,000,000;
fully paid.

"DISCOUNTED."

The probability that something unfavorable to
the market might transpire upon the assembling of
Congress has been amply discounted by the de-
cline in prices in the last fortnight. We do not be-
lieve that any legislation of a detrimental character
will be or can be passed at this session, and we
think stocks a great bargain at current prices.

Present railroad earnings are only relatively bad
and are the result of conditions past. Future earnings
will be better, and it is with the future that we
have to deal. Courage will pay now as it did before
election, and it does not require so much of it, nor
so much money to carry stocks.

There is short interest enough in the market to
give an upward movement a good start.

WHEAT

Continues strong on legitimate demand and looks
like going higher.

Write for our "400-PAGE MANUAL," illus-
trated with railroad maps, giving complete in-
formation of all RAILROAD and INDUSTRIAL
properties, including highest and lowest prices for
a series of 10 to 30 years of Stocks, Bonds, Grain,
and Cotton, and also the methods of buying and
selling on margin.

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BANKERS

AND

Commission Stock Brokers,
53 BROADWAY, NEW YORK.

The actual and urgent consumptive demand for
Wheat continues, and reliable authorities esti-
mate the requirements of the other countries so
large that a material increase over our present
heavy exports is expected. America has no com-
petitor to force her to sell, and will therefore con-
trol the Wheat markets of the World, as she ad-
mittedly holds the key to the situation. Aside
from the strength given to the position by the
serious predicament of many countries and the
anticipated depletion of our reserves before an-
other harvest, there is not only the possibility, but
at present the very strong possibility of American
Winter Wheat going into Winter under dangerous
conditions.

Speculation has not been a factor in the present
rise, as the average operator even now has not
wakened to the unusual and overwhelming
strength of the position. In our opinion, a much
higher price for Wheat is warranted and inevitable,
and when it comes Corn, Oats and Provisions
that have been so long neglected at panic prices
will be materially influenced and benefited.

A revival of speculation along the whole list of
commodities traded in on the Chicago Board of
Trade is not far distant. The restoration of confi-
dence in financial circles shows untold Capital
eagerly looking for investment. It will ultim-
ately find sure and safe employment here, where
some of the principal products of American soil
are still selling for less than it costs to produce
them.

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boards, etc.

Price and terms to suit the times. We have also
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wood which owners will not allow advertised.

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end. E. I. R. R. on east side. Long lease to good
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our prices for wheat. We advise buying May
any breaks for a good profit. Corn and Pro-
visions are very low and should sell higher. Mar-
ket Letter free. Write for Information and Ref-
erence Book.

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CHEMICAL GLASSWARE,
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Chicago, December 1st, 1896

Bellman
Professor W. R. Harper,

President University of Chicago,

Chicago, Ill.

(20)

Dear Sir:--

I received a notice a short time ago in which the new University offered to issue degrees to old students upon payment of fee for diploma. At that time, times were so hard I was unable to pay this fee, although I very much wished to receive the new diploma. I sincerely hope the opportunity will be offered this coming year and that I will be able to avail myself of it, not only for the B.A. but M.A.

My interest in the University is so great I would very much like to see a suitable musical course and if I can be of any assistance in the introduction and organization of this course, I shall be very glad.

In the year 1883 the old University offered me the degree of Doctor of Music and I very much wished to accept it, in fact, all arrangements were made, but I told them that for their own sake it would be well to have at least a printed musical course in the catalogue if nothing else, otherwise, the degree would not mean what it should. Of course, the reasons of this for the old University would not hold in regard to the new one which has so much better reputation, nevertheless, you can easily see the great advantages in giving the degree to any one that he would have in pointing to a printed course. Of course, I wished to take the degree only upon examination ~~and~~ to satisfy the faculty of my ability and

W. H. HARVEY & CO.

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TELEPHONE, MAY 3005

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CHICAGO, DECEMBER 1st, 1886

Professor W. R. Huber,

President University of Chicago,

Chicago, Ill.

Dear Sir: --

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comlyg yrev I .A.M. fud .A.H. ed rot vno

My interest in your very much
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Science Apparatus
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134-136 Wabash Avenue.

W.R.H.2.

Chicago,

the character of my music, had some selections performed before the faculty at my own house at my own expense. More than this, I prepared a full musical course.

Enclosed you will find a copy of my letter to Dr. Anderson and also a copy of the course I prepared. Could not something be done? My music is not what would be called popular music, it is quite otherwise, being in classical style and church style altogether.

Owing to financial troubles and other reasons, the University was not able to take action at that time. Two or three years later I applied for the same degree, but as the M.A. was to be given to me in the course, I chose the M.A. degree rather than honorary Music Doctor. I would like to renew the application for this latter degree if it can be arranged, feeling sure I can satisfy you as to my ability, either from published works or reputation as a musician or from examination. You are well aware that the scholarship of American Musicians with few exceptions, is extremely low, and that they insist upon following the fashion in music rather than trying to set a high standard of the art upon the highest principles established long ago. In the draft which I prepared for the old University, my name is mentioned as Director because the idea was to put this department in my charge.

Enclosed you will find copy of an account of a performance of music above referred to taken from the Indicator of May 12th 1883. This account gives the program also list of the guests and the names of those of the faculty who were present. It may interest you to know that Dr. Cronin mentioned is the one who was murdered some years ago. He had a very fine tenor voice.

In regard to my ability I refer you to H. Clarence Eddy and

Science Abbreviations
Mathematics
1941-42 Catalogue

“monitors”
enjoyed a stimulus
environment.

3 92467 1224644

Chicago

S. H. Y. W.

...and you own house at my own expense. More than this, I prepared a list
of books and courses.

of wood type Dr. Gourin mentioned in one who was interested some
years ago. He says he has had many good experiences in
the use of wood type. It may interest you to know that he
has a large collection of wood type which he has collected
over a period of years. He says that he has found it very
useful in his work as a printer.

In letter I will you of bring me difference H. of H. letter I will you of bring me difference H. of H.

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Chicago,

W.R H.3.

Emil Leibling, both of Chicago among others. I studied with Dr. J. H. Bridge, of Westminster Abbey and Dr. J. W. Elliott, of St. Marks both of London, among others.

Enclosed you will find a clipping from the Chicago Times-Herald Sunday November 29th '96. The first two and the last paragraphs I hope will interest you. There are some misstatements in the article in regard to Acetylene, however.

Yours very truly,

N. F. Fuller.

I refer also to my uncle, Hon. W. W. Fuller, Chief Justice, Washington, D.C.

194-195 Mapesep Avenue
Montgomery,
Quebec

"Montez"
Automobile Association
Montgomery

July 17, 1947

Chicago,

W.H.B.

Enclosed you will find a copy of Chicago's morning paper, the Sun-Times-Herald Tribune, dated from July 10 to July 12, 1947. I am enclosing a copy of the Sunday newspaper, the Sunday Times Herald Tribune, dated July 13, 1947. The Sunday paper has some interesting features in its sports section, such as the "Sports Column" by Bert Bell, and the "Football Column" by Jim Thorpe. I hope you will find them of interest.

Yours very truly

• Robert F. H.

-Yours, Robert F. H. M.P., etc., etc. you will also refer to
I.C. and possibly W. in my

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SCIENTIFIC
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Special Machinery.

December 19th, 1896.

Dr. W. R. Harper,
President University of Chicago,
Chicago, Ill.

O. M. M.

Dear Sir:--

Your recent favor is received. It gives me great pleasure to know that the University does not give honorary degrees or degrees upon examination. It is exactly as it should be. But, I am exceedingly sorry that it does not see its way clear to establish true high grade musical degrees the same as Oxford and Cambridge. Of course, I hope you do not confound the musical course which I sketched with that of the so-called musical colleges over the country, for of course, this is entirely different. The one sketched is to make a musical scholar. The ones usually taught are simply to make either a musical performer or a composer. I assure you that the two are vastly different.

I sincerely hope before long the University can establish these degrees, as without them it certainly is incomplete.

Yours truly,

A. T. Fuller x

— 178 —