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**CONCERTED ATTACK  
BY ALL SCIENTISTS**

**UPON PROBLEM OF MATTER**

Constitution of Material Things  
Greatest Cause of Query of  
Men Who Study Na-  
ture's Work

George Ellery Hale, honorary di-  
rector of Mount Wilson observatory,  
views the possibilities of a concerted  
attack upon the problem of the consti-  
tution of matter by scientists in the  
September Scribner's Magazine.

"One of the greatest problems of  
science is the constitution of matters,"  
says Dr. Hale, "and its conversion into  
radiant energy. The spiral nebulae,  
remarkable as they are as 'island  
universes,' have suddenly assumed ad-  
ditional interest because of the part  
they may play in the solution of this  
problem.

**Widest Variety**  
"Matters occur in nature under the  
widest variety of composition and  
form. The physicist, who approaches  
the problem of its constitution by the  
most direct route, deals chiefly with  
the chemical elements, and evolves  
powerful methods of research which  
enable him to penetrate to the core of  
the atom, to visualize the electrons  
swinging in their orbits, and to re-  
move them one by one for detailed  
study. The chemist, concerned primar-  
ily with the union of atoms into  
molecules, and the combination of  
molecules of one or more elements,  
attacks matter of greater complexity,  
extending all the way from the single  
atom of hydrogen to compounds con-  
taining hundreds of linked atoms of  
many kinds. The astrophysicist, per-  
mitted by his telescopes to push his  
researches into space, observes mat-  
ter in the state of luminous gaseous  
elements, associated in the cooler  
stars with certain chemical com-  
pounds. The cosmic crucibles in his  
celestial laboratory exhibit conditions  
of temperature and pressure often  
transcending those attainable on  
earth, and thus present for observa-  
tion experiments on an immense scale,  
the interpretation of which has al-  
ready added much to our knowledge  
of physics and chemistry.

**Ninety-Two Elements**  
"We now know that there are just  
ninety-two elements in nature, the  
heaviest of which are spontaneously  
breaking up into lighter ones. The  
basic element, hydrogen, exists  
throughout the universe, accompanied  
by other elements in varying propor-  
tions and states. Certain stable ele-  
ments can be broken up by artificial  
means in the laboratory, but no meth-  
od of combining their constituents  
has yet been found. In the stars, how-  
ever, there is strong reason to believe  
that the heavier elements are actually  
being built up from lighter ones, un-  
der conditions involving phenomena of  
radiation and absorption of energy as  
yet unmatched on the earth. A gen-  
eral study of the constitution of mat-  
ter should therefore be so organized  
that physics, chemistry, and astro-  
physics may all play adequate parts."  
"Such a joint attack, initiated four  
years ago by the California Institute  
of Technology and the Mount Wilson

observatory, has already yielded many  
important results."

**REFORESTATION IS  
STUDIED IN SCHOOL**

Becoming Popular Subject For  
Courses in New York, It  
Is Reported

Reforestation is becoming a popu-  
lar school project in New York state.  
Two thousand trees have been plant-  
ed each year for the past three years  
by pupils of the Cold Brook school,  
and the work will be continued this  
year. A good beginning has been  
made upon the school forest of Wat-  
son, Lewis county, which will ulti-  
mately cover 98 acres; trees are  
planted at the rate of 10,000 a year.  
Pupils of the Spencerport high school  
are planning to reforest 2½ acres  
of a 12-acre tract. A school forest  
has been started by the agricultural  
department of Walton high school. A  
plot of 5¼ acres was purchased last  
year on Pine Hill covered a century  
ago with virgin white pine forest.  
About a third of the plot has already  
been set out, and the remainder will  
be reforested during the next two or  
three years in order to train stud-  
ents in practical forestry.

This work is promoted by the State  
Conservation Commission, which sup-  
plies young forest trees free for  
planting on publicly owned land and  
at a nominal price to individuals. The  
Arbor Day number of the bulletin to

the schools, issued by the University  
of the State of New York, was large-  
ly devoted to descriptions of such  
efforts.

Plug hats being worn more, but  
people can't get elected to office mere-  
ly by putting one on.

The number of girls sitting around  
without partners at the dances is a  
suggestion that the man power of  
the nation is declining.

State of Illinois,  
County of Lake, ss.

IN THE PROBATE COURT OF  
SAID COUNTY

In the Matter of the Estate of Mary  
G. Mockler, deceased, and in the Mat-  
ter of the Application of William  
Mockler, Administrator of the Estate  
of Mary G. Mockler, deceased, for  
leave to sell real estate to pay debts.

vs.  
James Irving Mockler, Bridget Mc-  
Cormick, Raymond Bergeron, Earl  
Bergeron, Norman Bergeron, Con-  
stance Jaundrau.

PUBLIC NOTICE is hereby given  
that in pursuance of a decretal order  
made and entered of record on Octo-  
ber 7, 1926, in the above entitled  
cause, in and by the Probate Court of  
Lake County, Illinois, at the October  
Term A. D. 1926 of said court, the un-  
dersigned, as Administrator of the  
Estate of Mary G. Mockler, deceased,  
will on Tuesday, the 16th day of No-  
vember, A. D. 1926, at one o'clock in  
the afternoon of said day, sell at pub-

lic vendue at the premises herein de-  
scribed, in the City of Highland Park,  
in the County of Lake, in the State  
of Illinois, to the highest and best bid-  
der for cash, all and singular the fol-  
lowing described real estate, in said  
decree described, to-wit:

The South one hundred feet of  
Lot ten in block thirty-six in the  
City of Highland Park, Lake  
County, Illinois, (except the west-  
erly eighty feet thereof) subject  
to dower and homestead rights of  
William Mockler

for the purpose of paying debts and  
claims against said estate, and costs  
and expenses of administration there-  
of.

Dated this 7th day of October, A. D.  
1926.

WILLIAM MOCKLER,  
Administrator of the Estate  
of Mary G. Mockler, deceas-  
ed.

ERNEST S. GAIL,  
Attorney for Estate. 33-36

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