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# SCIENCE BULLETIN

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A rare opportunity is offered to all teachers of science in Iowa next month. The American Association for the Advancement of Science will hold its annual meeting in Des Moines from December 27 to January 2. This organization is the greatest organization of scientists in America with a membership of over 18,000. Included in its membership are scientists of international reputation in all fields of science. This will be the second time in the history of the organization that it has met in Iowa. In 1872, it met in Dubuque. It is not likely to come to Iowa again soon.

At this meeting you will have the opportunity to hear and see the greatest scientists in America, men who are making history in science. The president is Dr. Millikan, a man of international reputation in physics and the recipient of the Nobel prize in science a few years ago. The retiring president is Dr. Henry Fairfield Osborn, the eminent American paleontologist, who is well known to any one who is interested in the field of organic evolution. He will give his presidential address at this meeting.

While many of the addresses and papers in the sectional meetings will be of a technical nature as they are reports of recent research in the various fields of science, yet there will be addresses of a more popular nature which will be of interest to all interested in science.

One is impressed at one of these meetings with the tremendous amount of research in science that is in progress and with the fact that a teacher of science will soon be a back number in his field unless he is continually alive professionally. You owe it to yourself and to your pupils to attend these meetings and get the inspiration from hearing and seeing those who are making history in science.

## SCIENCE MINDED

### Chemistry

When we are trying to be "air minded" and "peace minded" why not go a little further and be "science minded"? The aeronautic field has as its champion, Colonel Lindberg; the Peace Federation has as its champion, Ishbell McDonald; but where is the youthful champion of the field of chemical science? In this day of scientific advancement, a champion is surely needed to bring the achievement of chemical science to the people. Someone has said, "Science is the Creator's chest of tools. Human progress is man's learning to use these tools."

It seems to me, if I may offer my personal opinion, that too few men ever have the opportunity of gaining knowledge in the use of this chest of tools. It is true that we teach the fundamentals of chemical science in the institutions of higher education and sometimes in the high school, but is chemical science so difficult that we are justified in distributing the fundamentals of this science to only a few who happen to have the advantage of going to institutions of higher learning or to a high school offering courses in the chemical sciences?

What one generation learns in college, the next generation learns in high school, or perhaps even in the elementary school. Radiology, a science difficult for the adult mind to grasp, is mastered very readily by the youthful mind. Trigonometry, once taught only in college, is now being taught in the senior high school and will soon have its place in the junior high school curriculum.

The child plays with the toy of the times. Granddad, when a small boy, played with a toy fashioned after Noah's ark. Dad, when a boy, played with a toy fashioned after the horse and buggy. We played with a toy fashioned after the automobile or the locomotive, but the boy of today plays with a toy fashioned after the tri-motor aeroplane, the submarine, or the Graf Zeppelin. The progress of a nation is marked in the attainments of its youth.

Many individuals have done a