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Projects in Biology

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a movement among high school science clubs to organize into state-wide units, the Iowa Academy welcomed the opportunity offered by this situation to serve science.

Already such organizations have been established in athletics, in dramatics and in music to say nothing of the many social activities of the high school student and it is time that science, which today dominates the thinking of the modern world, should claim its share of the student's activities. Further, the Iowa Academy which is composed of the leading scientists of the state, is the logical channel through which this activity should be guided.

The science club movement is well under way and the Academy has much to offer it by a close association. The Academy offers the Junior Academy its central organization as a nucleus around which to build. It has a personnel of distinguished men whose experience and enthusiasm should and can be made a source of strength to the associated clubs. It will be a clearing-house for ideas, programs and information which will be a benefit to the members of the Junior Academy. From its experience it can help the Junior Academy in its organization and success.

By joint meetings contacts can be made between students and the leading scientists of the state that will be mutually beneficial. By recognizing student achievement the Academy hopes to stimulate scientific interest among high school students which will have a lasting influence on their appreciation of and application in scientific endeavor.

It is not the purpose of the Academy to dominate the Junior Academy, as a careful reading of the proposed constitution of that organization should make clear. The Academy wishes rather to act as "guide, philosopher and friend." It is with this spirit that the Academy has taken up the task of assisting the Junior Academy movement and it is in this spirit that we hope the high school clubs of the state will come in with us and make the cause of science felt throughout the state. We shall endeavor to co-operate and assist in every manner within our power to

strengthen and advance science among our junior membership.

Yours sincerely,

Joseph C. Gilman,
Secretary of Iowa
Academy of Science

PROJECTS IN BIOLOGY

The following are suggested projects in biology. Next month the issue will be devoted to physics and chemistry. Write for further information.

1. Health posters. These can be prepared by students to show proper health habits and practices.
2. Posters on civic biology.
3. Bacterial plate cultures illustrating the occurrence of bacteria and their relation to hygiene and sanitation. (See Conn.—Bacteria, Yeasts, and Molds in the Home).
4. Life history studies of animals.
5. Collections of insects.
6. Collections of native weeds.
7. Collections of fruits and seeds illustrating dispersal.
8. Bird calendars and migration charts.
9. Charts showing economic importance of birds.
10. Collections of materials showing trees of your vicinity.
11. Photographs of nature subjects.

SUGGESTIONS FOR BIOLOGY OR NATURE CLUBS

The very first requirement for a successful club of this nature is enthusiasm for and an interest in the world of living things. The sparks for kindling enthusiasm must come from off the hearth of the sponsor. While the students must be guided they should be led to feel that it is their program that they are working out and not that of a teacher who grants credit for participation. Voluntary membership makes possible a better qualified group of students whose hearts are "in it" while compulsion will bring in those who will eventually spoil things for those who are naturally interested.

It is well for the sponsor to have in mind some very definite objectives to be accomplished. These may