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Biological Illustration Book

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cine and Dentistry; and the Departments of Radiation Research, Chemistry, Zoology, Botany, Geology, Astronomy, Physiology, Psychology, Microbiology, Anatomy, Pharmacology, Biochemistry, Computer Science, Anthropology, and Geography. The program helps stimulate superior students by familiarizing them with the daily activities of the scientists. Research participants, by working in a research laboratory approximately 40 hours a week for either six or eight weeks, can better verify or alter supposed interests in scientific careers in research. A \$300 Cancer Research Scholarship award from the American Cancer Society—Iowa Division is available to eligible Iowa participants.

The Course Centered Programs are designed to provide in-depth and enriching experiences in the areas of **Physics, Molecular Biology or Computer Science**. Each four week experience combines a classroom and laboratory environment towards providing a unique program of study for students.

In addition to the extended research and course centered opportunities, a special two week **Creative Problem Solving/Career Exploration** short course provides students the opportunity to develop a research proposal, participate in on-site laboratory visits, learn basic computer skills and interact with research scientists. The course is scheduled so that students interested in any of the Course Centered Programs may supplement their studies by attending the short-course the two weeks prior to their four week program.

For more information, write: Iowa-SSTP, The University of Iowa, 455 Van Allen Hall, Iowa City, IA 52242; or call toll-free within Iowa, 1-800-272-6412, ext. 4102.

Biological Illustration Book

Biological Illustration: Techniques and Exercises, just published by the Iowa State University Press, offers a series of introductory exercises designed to develop and increase competency with a pen and ink in biological illustrations.

It is written by John C. Downey and James L. Kelly, both of the University of Northern Iowa, and is illustrated by their students in a beginning class. It is designed to meet the needs of high school, junior college, college and independent illustrators.

Downey and Kelly have designed their book to acquaint students with some of the common techniques of rendering and the materials used in illustration. Tips at the end of each section offer down-to-earth suggestions on such topics as the care of pen points, ink and corrections, and cleanliness.

Biological Illustration: Techniques and Exercises is designed for either class or self use in progressing from the elementary use of and facility with the pencil to the use of special techniques for special effects.

The authors begin with an introduction to the skills, a general outline of the plan of their book, and a discussion on natural and acquired talent.

They continue into beginning instruction with the pen and pencil dealing with such topics as perception, concepts of distance, perspective, foreshortening, techniques used in creating shadow, tone, and texture, light sources and highlights, halftone reproductions versus linecuts, tracing and stippling, scratchboard illustrations, and the use of overlays.

Barbara N. Rankin, medical illustrator, writes: "As an extension of the classroom experience, the inclusion of critical questions for self-evaluation at the end of each study provides a distinct advantage when using the workbook with the watchful eye of an instructor."

Biological Illustration: Techniques and Exercises will be valuable to high school and college teachers in graphic arts and sciences and to professionals in similar professions. It is available from bookstores or from the Iowa State University Press.

A New Association for Earth Science Teachers

The Michigan Earth Science Teachers Association (MESTA) has been a positive influence in earth science education primarily through their activities, which include an annual conference, field trips, a quarterly publication and presentations at professional meetings in the state. Almost a year ago the Association voted to devote some of its resources and guidance for earth science teachers on a national basis by sponsoring the National Earth Science Teachers Association.

Through casual solicitation and word of mouth, mostly at NSTA in Chicago, MESTA already has nearly 50 charter members from all over the country who have paid the \$5 annual dues and who are receiving copies of the *Michigan Earth Scientist*. A founding meeting has been arranged at NSTA in Dallas this year, from 8:00 to 8:50 a.m. on Saturday, April 9, 1983 in Room E408 in the Convention Center. We invite you to be there, pay your \$5 annual dues, become a charter member, elect officers and conduct other business.

MESTA, with a current membership of about 130 and an 18-year history, is organized primarily by K-12 teachers with some assistance and appropriate advice from college faculty. They successfully achieve their purpose, which is "the advancement, stimulation, extension, im-