

# Audiovisual Reviews

## THE WONDER OF DOLPHINS

1980. Centron Films, (1621 W. Ninth Street, Box 687, Lawrence, Kansas 66044). 16 mm color-sound film. 11 minutes. Purchase \$235.

According to the "Leader's Guide," this film shows four aspects of the life of dolphins. Supposedly, the introduction treats sound as a means of navigation and communication. The second section treats the association between mother and baby and the attitudes of dolphins toward people. The third segment portrays a group of people who were the first to spend time with wild dolphins. The final portion discusses future associations between dolphins and humans. In fact, the film does none of these things.

In my experience with dolphins I have known them to navigate and locate food by series of clicks and "creaking door" sounds. They also use these "low frequency" sounds to differentiate between objects of a similar size and structure. The echolocation is so accurate that dolphins can differentiate two steel balls with a difference in diameter of only one mm. The high pitched whistles, along with frequencies which the human ear cannot hear, are used for identification and communication. The film mentions the "high pitched creaking door sounds" as a method of communication.

The most glaring error in the film is the identification of a pilot whale or "blackfish" as a 16-foot tropical killer whale. Anyone who knows anything at all about whales would never confuse these two. They are completely different in color, body shape, and temperament.

The attempt to imitate dolphin sounds with an underwater piano is ludicrous, to say the least. Neither the high or low frequency keys were engaged, but several keys in the mid-range were tried in succession. It would have been better not to mention the attempt.

Stories of human interactions with dolphins come to us from as far back as ancient Rome and Greece. Certainly they did not have oceanariums in those days so I must assume that the dolphins were wild. The claim that the people in the film were the first to approach so close to wild dolphins is not believable.

A disconcerting statement in the narration mentions the longevity of dolphins

by stating "when well protected by mother from sharks they will live as long as 30 years." I may be nitpicking, but how long do the mothers live? A rewording of the script is in order here.

There are many more inaccuracies in the script such as size of brain versus intelligence and swimming speed (30 mph). The photography and color in this film are outstanding and do not deserve to be destroyed by such a poor script.

Perhaps an explanation of the poor script quality can be found in the ending credits that state that sequences for this film were taken from a full length feature. They evidently extracted parts of the script from the same feature with little regard to the visual sequence. The film could easily be changed to an outstanding feature with a new script.

As it stands, I cannot recommend this film to anyone, much less biology teachers, because of the inaccuracies and falsehoods it contains.

G. C. Corcoran

*Gulf Coast Research Laboratory  
Biloxi, Mississippi*

## THE HOTTEST SHOW ON EARTH

1980. Macmillan Films, Inc., (34 Mac-Questen Parkway So., Mount Vernon, New York 10550). 16 mm color-sound film. 28 minutes. Purchase \$385; rental \$35.

This film presents the problem of energy waste and decreasing supplies of

fossil fuels and proposes conservation as the key to the solution. The major thrust of the film is the use of insulation as one method for conserving energy. Interviews with people on the street show that some still do not believe there is an energy crisis.

The film is made lively and entertaining through the skillful use of animation and music. It will capture and maintain the interest of high school students in any science class. As the publisher states: "(it) uses almost every visual trick in the bag to make a serious point—the importance of home insulation in the light of energy shortages and escalating fuel costs."

Although the film can be used for any group of students and is extremely entertaining, students will be limited to learning one point: insulation is an important method for conserving energy. Because many students live in apartments, the appeal of this approach to understanding conservation methods may decrease the effectiveness of the film. The narrow approach to a complex problem may also seriously limit the usefulness of the film.

Despite these drawbacks, the film can be used in many ways. It may be used to introduce a unit in ecology or as an example of the principles of heat transfer. The interviews with people on the street can motivate discussion of contemporary issues in science, such as new energy technologies and their impact on societal attitudes. In any case, sustained student interest is guaranteed.

Vincent J. Cusimano

*Susan E. Wagner High School  
Staten Island, New York*

## LIFE CYCLE OF A FISH

1980. Macmillan Films, Inc., (34 Mac-Questen Parkway So., Mount Vernon, New York 10550). 16 mm color-sound film. 13 minutes. Purchase \$175; rental \$15.

The life cycle of a killifish is illustrated. The killifish, an international member of the minifish family, is the primary food of many larger fishes as well as an important predator of mosquito larvae. Embry-

Faith Hickman, Audiovisuals Editor, selects materials and coordinates the review process for this feature. Cathrine Monson is her assistant. Their continuing contribution to the journal is deeply appreciated.

Readers interested in becoming audiovisual reviewers are invited to write to Ms. Hickman. General inquiries on this feature should also be addressed directly to her at:

833 W. South Boulder Road  
Louisville, CO 80027

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Sutton writes in a simple direct style that probably rates fairly low on the pedagogical reading scales, yet it is not without character. High school students will encounter little obscure diction and will be unconscious of occasional colloquialisms. Most readers will be carried along easily as one incident succeeds another. And some will be gripped by this true story of the successful application of talent through the persistent pursuit of an idiosyncratic interest.

Unfortunately, the illustrations do not adequately display Sutton's ability to catch the avian character, particularly his distinctive rendition of the softness of plumage. The snowy owl frontispiece is best, but teachers should refer interested students to other published reproductions of Sutton's work, such as those in Robert's *Birds of Minnesota*.

Secondary teachers may be saddened by Sutton's low opinion of his high school instructors. On the other hand, he views his college professors—and in a small sectarian college at that—quite favorably.

Perhaps more important, teachers at all levels may be disturbed by the repetition of the robbing of eggs from nests and the shooting of birds. A bird is blown full of shot and then the killer is aesthetically moved by the play of light on the feathers or the gleam in the fading eye. This is not the callousness of an individual, but a universal human paradox that certainly should bother us. However, at an earlier time this particular aspect of that paradox was scarcely recognized and today it will not upset early adolescents—themselves cheerful semi-barbarians. Nor, having myself passed through the hunting mode, do I fear blight on their future development.

If you respond to a mixture of aesthetics and inquiry, get this book. If you suspect that in your classroom lurk students who may so respond, recommend it to your librarian.

Haven Kolb  
Hereford High School  
Parkton, Maryland

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ological development from the day of fertilization through emergence from the egg eleven days later is well presented with the aid of excellent time-lapse photography. Hourly and daily changes unfold continuously. The subject and narrative make this film suitable for junior high through advanced biology courses.

Sharon Helling  
Walter Johnson High School  
Bethesda, Maryland





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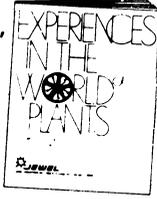
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## BOOKS RECEIVED

A HISTORY OF THE LIFE SCIENCES, by Lois N. Magner. 1979. Marcel Dekker, Inc., New York. 504 p. \$23.50.

AMPHIBIANS AND REPTILES OF THE CAROLINAS AND VIRGINIA, by Bernard S. Martof, et al, University of North Carolina Press, Chapel Hill. 264 p. \$14.95.

THE BIOLOGY OF PEACE AND WAR: MEN, ANIMALS, AND AGGRESSION, by Irenaus Eibl-Eibesfeldt. 1979. The Viking Press, New York. 294 p. \$15.00

CONSERVATION BIOLOGY: AN EVOLUTIONARY-ECOLOGICAL PERSPECTIVE, by Michael E. Soule and Bruce A. Wilcox. 1980. Sinauer Associates, Inc., Sunderland, Massachusetts. 395 p. \$14.95.

BASIC ANATOMY AND PHYSIOLOGY OF THE HUMAN BODY, 2nd ed., by J. Robert McClintic. 1980. John Wiley and Sons, Inc., Somerset, New Jersey. 694 p. Price not given.

MCGRAW-HILL ENCYCLOPEDIA OF OCEAN AND ATMOSPHERIC SCIENCES, by Sybil P. Parker. 1980. McGraw-Hill Publishing Company, New York. 580 p. \$34.50.