

1979

## Oscillating Equipment

Erwin Richter

*University of Northern Iowa*

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## Quickies

If you have an idea that facilitates science teaching, jot it down and send to Editor, *Iowa Science Teachers Journal*, Biology Department, University of Northern Iowa, 50613. Be sure to include the name of your school and position. Here are some recent contributions.

\* \* \*

### Oscillating Equipment

**Erwin Richter, Chemistry Department, University of Northern Iowa**

Mix 25 ml concentrated sulfuric acid, 5 g malonic acid, 5 g sodium bromate and a small crystal of manganese sulfate with 250 ml of distilled water. Stir this mixture with a magnetic stirrer. The color of the solution will oscillate between colorless and reddish brown at about 2 second intervals for several minutes.

The chemistry involves the reduction of bromine in the bromate ion to free bromine (this gives the reddish brown color) and then the subsequent oxidation of bromine to the colorless form. (Bromate ion is colorless.)

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### Mnemonics

**Ron Hamel, Madrid Community High School, Madrid, Iowa 50156**

The following mnemonics have proven useful in teaching the systems of the human body and major cellular functions in classes at Madrid High School.

### RIC'S REDMEN

This mnemonic lists the major systems of the human body such as the reproductive, integumentary, circulatory, skeletal, respiratory, endocrine, digestive, muscular, excretory and nervous systems.

### DR. AND MRS. RANSEE

This mnemonic outlines major cellular functions such as digestion, respiration, movement, response, synthesis, reproduction, absorption, nutrition, secretion, egestion and excretion.

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### Correction

The incorrect address of Mr. H.B. Wagoner was published in the Sept. 1978 issue of *ISTJ*. The correct address for information concerning the Creation Model of Evolution is 3701 E 38 St. Court, Des Moines, Iowa 50317.