

SCIENCE SCREEN REPORT

VOLUME 20

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1 ECOLOGY: UNDERSTANDING FOREST DECLINE

Forests are all-important “lungs of the earth.” They help negate the harmful effects of carbon dioxide in our atmosphere while helping to provide the oxygen we need to sustain life. This edition of SCIENCE SCREEN REPORT examines the causes of forest decline, the effects of multiple pollutants on trees, as well as the actions scientists are taking to preserve our forested lands. Running time: 13:48

2 TECHNOLOGY: SENSORS EXTEND HUMAN SENSES

Sensors have revolutionized most modern industrial processes and will become even more prevalent with the further application of new technologies in our society. This installment of SCIENCE SCREEN REPORT explores the added power sensors give us to identify and monitor isolated activities amidst highly complex functions. Running time: 15:10

3 PHYSIOLOGY: THE MOUTH - ORGAN OF LIFE

Imagine life without eating or communicating. It's very difficult to do, because the mouth is truly the organ of life. This issue of SCIENCE SCREEN REPORT offers an in-depth look at our mouth and brings to life the complex workings of our lips, tongue, teeth, jaws and facial muscles through exciting x-ray video and animated graphics. Running time: 13:49

4 ENGINEERING: MASTERING MOLECULES - THE CHEMICAL ENGINEER

From the tallest skyscraper to the smallest grain of sand, we live in a molecular world. This edition of SCIENCE SCREEN REPORT explores the many career opportunities in this growing field, ranging from chemistry to process design, manufacturing and beyond. Running time: 12:50

5 ELECTRICITY: CURRENTS OF POWER

Drawing analogies between the harnessing of water and electricity, this edition of SCIENCE SCREEN REPORT examines the development and physics of direct current. *Currents of Power* traces the origins of common electrical terms and reviews formulas used in calculating measurements such as watts, amps and resistance. Running time: 17:53

6 CHEMISTRY: PLASTICS, PROBLEMS AND SOLUTIONS

This issue of SCIENCE SCREEN REPORT explains how plastic is made and goes on to examine the many products and by-products associated with the manufacture and use of this space age synthetic. The process of recycling and its benefits to the environment are also discussed. Running time: 13:25

7/8 ENTOMOLOGY: THE EVOLUTION OF BEES

136 million years ago, flowers first appeared on earth. That started tremendous changes in the insect world that led to the wide variety of bees in existence today. This issue of SCIENCE SCREEN REPORT uses rare close-up footage to trace those developments and explain how bee “societies” function. Running time: 22:32

