

# Eleven Scientists Honored

Eleven scientists have been awarded the National Medal of Science, this country's highest honor for distinguished scientific and engineering achievement. In making the announcement, President Lyndon B. Johnson commended the group as "remarkable for its versatility."

The National Medal of Science serves as a symbol of the nation's desire to recognize outstanding achievement, to set an example for youth, and to emphasize to the world the depth and variety of American accomplishment in science and engineering.

The recipients and their citations are:

**Dr. Edward F. Knipping**, director of the Department of Agriculture's entomology research divisions, for his contribution to the control of insects responsible for diseases in humans, domesticated animals and plants.

**Dr. Fritz A. Lipmann**, biochemistry professor at Rockefeller University in New York, for original discoveries of molecular mechanisms involving the

transfer of energy in living cells.

**Dr. William C. Rose**, emeritus professor of chemistry at the University of Illinois, for his discovery of the essential amino acid threonine and subsequent studies showing the amino acid requirements of man and animals.

**Dr. Sewall Wright**, emeritus professor of genetics at the University of Wisconsin, for contributions to the mathematical foundations of the theory of evolution.

**Dr. Claude E. Shannon**, Donner professor of science at Massachusetts Institute of Technology, for developing theories of communications and information processing.

**Dr. Vladimir K. Zworykin**, honorary vice president of Radio Corporation of America, for major contributions to science and engineering in television and medicine.

**Dr. John W. Milnor**, mathematics professor at Princeton University, for "ingenious approaches in topology" that

have solved long outstanding problems and opened exciting new areas in this active branch of mathematics.

**Dr. J. A. B. Bjerkness**, professor of meteorology at the University of California at Los Angeles, who discovered the cyclone-making waves of the air and the climate-controlling ocean changes.

**Dr. S. Chandrasekhar**, professor of theoretical astrophysics at the University of Chicago, for numerous contributions to stellar astronomy, physics and applied mathematics, and for his inspiration to students and colleagues.

**Dr. Henry Eyring**, retired dean of the graduate school at the University of Utah, for his work in helping scientists understand the structure and properties of matter, and especially for his "creation of absolute rate theory."

**Dr. John H. Van Vleck**, Hollis professor of mathematics and natural philosophy at Harvard University, for his many contributions to the development of the theory of molecular structure.

## CHILDREN'S HEALTH

### Adult Diseases Strike Children, Young People

Migraine headache and rheumatoid arthritis, popularly believed to afflict only adults, are by no means rare in children and young people.

Two separate reports in the Jan. 5 New England Journal of Medicine warn physicians of wrong diagnoses.

Ten Negro and 18 white children were studied by a Johns Hopkins

group. The children appeared to be perfectly healthy except for migraine headache. They showed rather adult personalities and were of average or above-average intelligence. The researchers found that 46 percent of the children with migraine had positive spike patterns as compared with 18 percent of the normal youngsters.

Conclusions are that at present it does not seem wise to give anticonvulsant treatment to children with migraine, but to study individual patients and their needs. Drs. Dennis Whitehouse, John A. Pappas, Pablo H. Escala and Samuel Livingston reported the study.

In the other report, on children with rheumatoid arthritis associated with high fever, Drs. John J. Calabro and Joseph M. Marchesano of the New Jersey College of Medicine, Jersey City, warn doctors against needless treatment and exhaustive diagnostic studies. Fever in connection with the disease, they reported, has been "widely overlooked."

Fever was observed in 42 (84 percent) of 50 carefully evaluated patients with juvenile rheumatoid arthritis. In 12 children with acute onset of fever with rash, enlarged spleen and other symptoms along with preceding polyarthritis, temperatures were 105 degrees and above.

Among drugs recommended is aspirin, especially when the fever is low. However, treatment with antibiotics is often ill advised.

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