



- 8 9:00 p.m. Moon nearest, distance 222,700 miles.
- 9 7:56 p.m. Full moon.
- 10 3:57 a.m. Algol at minimum brightness.
- 12 early a.m. Meteors visible radiating from Gemini.
- 4:44 p.m. Moon passes Jupiter.
- 15 9:35 p.m. Algol at minimum.
- 16 9:21 p.m. Moon in last quarter.
- 18 6:24 p.m. Algol at minimum.
- 21 4:00 a.m. Moon farthest, distance 252,200 miles.
- 4:00 a.m. Venus at greatest brilliancy.
- 10:30 a.m. Moon passes Saturn.
- 2:46 p.m. Moon passes Venus.
- 22 4:25 a.m. Sun farthest south, winter begins in Northern Hemisphere.
- 25 2:33 a.m. New moon; annular eclipse of sun visible in vicinity of Indian Ocean.
- 31 6:40 a.m. Moon passes Mars.

Subtract one hour for CST, two hours for MST, and three for PST.
 Science News Letter, November 27, 1954

CHEMISTRY

Pattern for Insecticide Found in Plant Study

► BY TAKING apart the insect-destroying principle extracted from the pyrethrum plant, British scientists may be able to make still stronger insecticides.

Understanding the chemical differences that make one substance made from pyrethrum highly poisonous to insects while another harms them much less may point the way to better insecticides, states Dr. L. Crombie of the Imperial College of Science and Technology, London. He describes, in *Nature* (Oct. 30), his work with pyrethrum, a plant known to medicine since the time of Dioscorides.

In addition to pellitorine, the previously known extract not strongly poisonous, Dr. Crombie has obtained a new substance, anacyclin, from which he has produced an insect poison.

Knowing the chemical structure of these pyrethrum products, he believes their differences show the direction in which they can be modified to make artificially insect killers more potent than the original plant.

Science News Letter, November 27, 1954

PUBLIC HEALTH

Carbon Monoxide May Be Cause of Many Accidents

► LEAKAGE OF carbon monoxide from engines may be the reason for many accidents caused by drowsy, inattentive drivers, the California Highway Patrol has found.

The deadly gas was present, in concentrations described as above the safety limit, in 30 of 1,007 cars inspected.

Carbon monoxide is produced by the partial combustion of gasoline in the engine and can cause drowsiness, dizziness and headaches when present in small amounts.

Opening windows seems to be no safeguard against carbon monoxide in cars. The report notes that the gas may be drawn into the cars by the suction of air.

Science News Letter, November 27, 1954

Where do Ideas come from?

How are ideas created? What role does the unconscious play? Are ideas best developed through word-reasoning, mathematical-reasoning, or visualization? Why has Poincare's "forgetting-hypothesis" proved such a powerful method for illuminating new ideas? How did Helmholtz' "rest-hypothesis" help him? For just \$1.25 (a saving of 50% over the regular edition) you can own the book that answers these and many similar questions. This non-technical 156-page study—written by one of the fore-

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