CONTENTS FOR FEBRUARY 1951

by Lloyd Smith

by Frank H. H. Roberts

Copyright 1951 in the U. S. and Berne Convention countries by Scientific American, Inc. All rights reserved.

ARTICLES

LIEN'I FLC

MERICAN

Established 1845

THE EARLY AMERICANS

Relics of the Hemisphere's primeval people, popularly but incorrectly known as "Folsom Man," have now been found all over North and South America. The evidence shows they were here at least 10,000 years ago. 15

THE BEVATRON

Physicists expect to begin bombarding the nuclei of atoms with billions of electron volts of energy from powerful proton synchrotrons by the end of this year. A description of the huge new machine at Berkeley. 20

PEOPLE IN GROUPS by David B. Hertz and Sandra Lloyd Lesser

The basic principles that govern the operation of human organizations are being investigated experimentally by various social scientists. A report on some studies of communication, leadership and interactions. 26

THE COMMON COLD by Christopher Howard Andrewes

The noted British investigator of this myth-shrouded subject reviews the findings from his four years of study of the artificial production of colds in human guinea pigs. Victory over the dismal virus is not yet in sight. 39

GEORGII AGRICOLAE DE RE METALLICA

A collection of some of the woodcuts depicting early mining technology from the famous work by the 16th-century Saxon, Georgius Agricola, who was the first modern student and writer on mining and metallurgy. 46

TE BLOOD CELLS v. BACTERIA by W. Barry Wood What Lord Lister called one of the most "romantic" stories in the history WHITE by W. Barry Wood, Jr. of pathology-the investigation of the role played by phagocytes in defending man against disease-is here reviewed and brought up to date. 48

FRICTION

by Frederic Palmer

The fundamental cause of this familiar phenomenon is still a mystery. An authority on the subject discusses some of the recent work and modern theories concerning what happens when surfaces rub together. 54

WINDOWS

by Eugene Ayres

Only in the 20th century have the wonderful properties of window glass begun to be widely appreciated and used. Its ability to trap the heat of the sun is the basis of novel designs for heating houses without fuel. 60

DEPARTMENTS

LETTERS	2
50 AND 100 YEARS AGO	8
SCIENCE AND THE CITIZEN	30
BOOKS	66
THE AMATEUR ASTRONOMER	72
BIBLIOGRAPHY	76

Publisher: GERARD PIEL Editor: DENNIS FLANAGAN Managing Editor: LEON SVIRSKY Contributing Editors: ALBERT G. INGALLS JAMES R. NEWMAN Art Director: K. CHESTER

Business Manager: DONALD H. MILLER, JR. Advertising Manager: CHARLES E. KANE

SCIENTIFIC AMERICAN

MereMart.com

RELICS OF PREHISTORIC AMERICA

FIFTY CENTS 75 CENTS OUTSIDE THE AMERICAS

February 1951