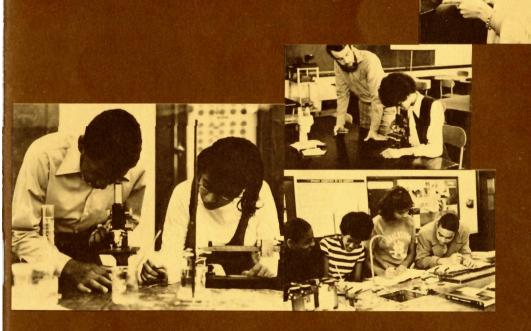
SCIENCE: MAN'S GREATEST ADVENTURE

AN EXHIBITION HONORING BLACK SCIENTISTS AND THEIR ACHIEVEMENTS





SCIENCE: MAN'S GREATEST ADVENTURE

an exhibition honoring black scientists and their achievements Despite deliberate exclusion, economic controls, and unequal opportunities, black men and women have made monumental contributions to modern technology. They have participated in scientific explorations throughout the ages.

"Science: Man's Greatest Adventure" is an exhibition that deals with science as the greatest adventure of the human race. Its principal objective is to reach and communicate with young people who are the potential scientists of tomorrow.

The Anacostia Neighborhood Museum, in its continuous effort to place the black man in proper perspective, continues with its series of historical exhibitions that focus on his achievements. Part of this exhibition includes twenty-two panels with photographic mounts, silkscreened text, and illustrations.

The first two panels show students of Anacostia High School science classes. These young people and many like them in other high schools and colleges are our scientists of tomorrow. The exhibit stresses the idea that the scientists of tomorrow are in schools all over the world today.

Because scientific discoveries influence our everyday activity it is important for our youth to have a knowledge of the sciences. It is even more important that young black students should challenge the opportunities for scientific and technical careers.

An illustrated chart defines the categories of science. Sciences divide, regroup, and overlap, so there is really no clear way to classify them. In the chart they are arranged in arbitrary groups. This panel starts with a historical comment on science relating to ancient Egypt and the Near East.

In ancient West Africa, as elsewhere, the technician came first, then the reasoning and the scientific theory. In Africa, tanners and metalworkers recognized differences among many classes of compounds and chemical changes, and they were aware of various reac-

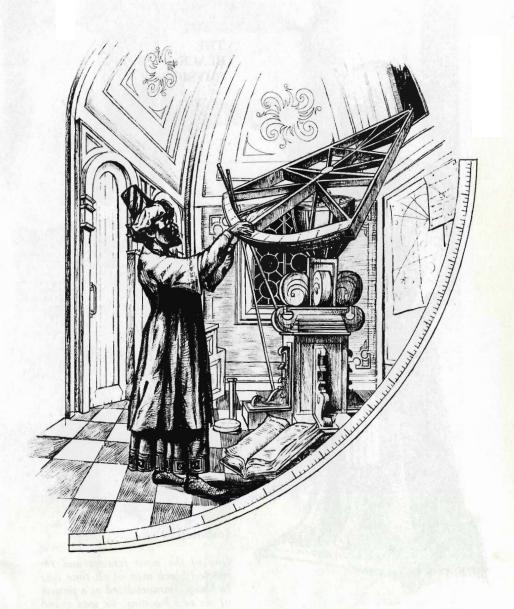
tions and results of compounds.

Today it is often forgotten that much of the Moorish culture was African culture and that black scholars, merchants, and technicians worked in Europe during the Middle Ages and the Renaissance. The university at Timbuktu was among West Africa's most famous cultural centers. The Negro or Moorish theme in European painting is evidence of the presence of black men of note in Europe.

Modern science is generally considered to have started with astronomers who questioned the ancient belief that the sun, the planets, and the stars revolve around the earth. The astronomer's struggle to establish the suncentered view helped to break down barriers between craftsmen and schol-

ars.

There is no color line in man's search for knowledge. A philosophical revolution began in the 16th century, and black men were active in that revolution. It is a fact that many have been excluded from the records of the western development of technology.



The Astronomer There is no color line in man's search for knowledge. There have been outstanding black scholars from the beginning of time.



THE BLACK PHYSICIAN

Imhotep

One of the most famous and respected black men of all time was Imhotep. Immortalized as a patron of art and learning, he was grand vizier, architect, chief ritualist, and sage and scribe to King Loser in the third century B. C. He was one of the few mortals to be regarded after death as a god [of medicine]. Imhotep pioneered many techniques that led to ancient Egypt's monumental civilization.







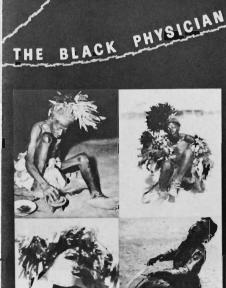


The ancient Africans held their physicians and witch doctors in high esteem, much as modern people regard their men of medicine. The ancient African doctors' abilities to heal have revealed much about medical science.



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EARLY REMEDIES





H. A. Poindexter was graduated with honors from Lincoln University and received his medical train-ing at Dartmouth and Howard Universities. During his undergraduate years, he was an All-American football and track star.

Dr. Poindexter traveled about 800,000 miles Dr. Poindexter traveled about 800,000 miles throughout the world in various positions with the Public Health Service. Teacher, administrator, and authority on tropical medicine, Dr. Poindexter served as a consultant to AID after his retirement in 1965. He was professor of both preventive medicine and public health at Howard University. In 1963, he became Vice President of Project Operations for AHEAD Foundation (American Health Edwards for Ariena Development). Operations for AHEAD Foundation (A.M.)
Health Education for African Development).







Dr. Williams established the country's first it racial hospital in 1891. It was there that he perfor in 1899, an operation thought to be impossible opened the cheet of the patient, a wounded is fighter, and repaired the wound. In 1894 Willia reorganised Feccineer's Hospital of Howard Un-



Dr. Charles Richard Dreu



There are twenty-two graphic panels in this exhibit-twelve square panels (4 by 4 feet) and ten rectangular panels (4 by 6 feet). Four of the rectangles are horizontal and six are vertical.

Percy L. Julian, Chemist (1898-)

Dr. Julian—who was educated at DePauw University, Harvard, and the University of Vienna directed soyl-ean research at Glidden Co. before establishing Julian Laboratories, where he specialized in producing sterols from soybean oil. (In 1961 his company merged with Smith, Kline, and French Pharmaceutical Co.) Scientist, businessman, and teacher, Dr. Julian is credited with making cortisone available at a reasonable cost.



PIONEERS OF SCIENCE

George Washington Carver (18642-1943)

A native of Diamond Grove, Mo., George Washington Carver joined the faculty of Tuskegee Institute in 1896. There he made studies of soil conservation and crop diversification. Using rustive produce, he developed more than 100 products from the sweetporato and more than 500 from the peamer. In 1916 he was named a Pellow of the Royal Academy of England and in 1928 he received the Spingara Medal. He was awarded the Roosevelt Medal in 1939 for distinguished service to science.







Ernest E. Just, Biologist (1883-8941)

Investigator of egg fertabration and cell structure, Dr. Just received the Spingarn Medal for outstanding contributions in biology.

The Charleston native was graduated magna am lands from Dartmouth College. He was associate editor of the journal, Physiological Zudogy (Chicago), The Biological Bulletin [Woods Hole, Mass.], and the journal of Morphology [Philadelphia]; and vice president of the American Society of Zoologists.







Gustavus Vassa (1745-1801)

dant on an expedition in quest of the. was a world traveler. A native of Benin, Nigeria (Guinea coast), he was an attenin 1773 to find a northwest passage to









IN QUEST OF THE NORTH POLE

Matthew Alexander Heithn

espeditions. On the last voyage, when they were almost at the North Pole, on Apr. 6, 1900, Peny could go no further. Henson engineed to assure that the US would be the first to reach the North Pole, Peny arrived 65 minutes later.

his boyhood dream of becoming the second Arderican to go to the North Pole He has com-

was flown by the Air Force on a special Dr. Herbert M. Frisby



















"Science: Man's Greatest Adventure" highlights the black physician in colonial America. The blacks brought with them from Africa their knowledge of medicine. In colonial America, both black and white doctors put much faith in the control of disease through charms and magic. There were many medicine men and "conjure" women.

Early physicians are mentioned. Students are encouraged to do research and more study of these early doctors and other scientists mentioned in the

exhibition.

Lucas Santomee was perhaps the first black physician in America. James Derham was a slave doctor. Dr. James Mc-Cune Smith was a graduate of the University of Glasgow (Scotland) in 1837. Dr. David J. Peck, in 1847, and Dr. Rebecca Lee, in 1864, earned medical degrees from American colleges. The exhibit mentions Dr. Daniel Hale Williams, Dr. Charles Richard Drew, George Washington Carver, Ernest E. Just, and Percy L. Julian.

Scientists of many contemporary fields are mentioned to motivate and encourage science students to further pursue their studies with confidence and optimism. On these panels are mentioned men in positions of research pharmacology, chemistry, physiology,

electron microscopy.

Today black scientists are found in several fields—as experts in steel technology, chemists, physicists, food researchers and nutrition experts, metallurgists, and computer scientists in the

nation's space program.

The background color of the panels are pale yellow, green, brown and black. Text and illustrations are in pale blue and white on the black panels and brown on the pale vellow panels.

Technologists of the past include Solomon G. Brown of Anacostia, D. C., who assisted Samuel B. Morse in putting the new magnetic telegraph system into operation and Benjamin Banneker, a well-known black man of science.

Despite the difficulties in proving all that black people had accomplished, in 1913 Henry E. Baker found that about a thousand patents had been awarded to blacks in the fifty years following emancipation. Prior to that, black men were not generally considered citizens and therefore could not obtain patents. Many black inventors concealed their identities, gave their ideas to others, or forfeited the credit to slave owners.

The fact that black scientists and innovators in the twentieth century have
had to overcome hostility, scorn, and
severe challenges in presenting their
ideas only heightens their achievements.
Perhaps one of the great adventures
of science is scientific exploration. The
exhibit suggests the study of early black
explorers. There were black seamen
long before Columbus set sail, and black
merchants were in many ports. Moorish
seamen and ships ruled the Mediterranean for more than seven centuries.

Matthew Henson was only thirteen years old when he became cabin boy on a ship sailing to China. He was on Perry's expedition to the North Pole and became the first man to stand on

top of the world.

There are many black Americans holding important scientific positions in air-space exploration and working on teams involved in the moon projects. There are black moon-project physicians, bioscientists, inventors, spaceresearch biochemists, aircraft technologists, tracking engineers, and many other space-vehicle engineers.

Through science, man has learned to dominate the earth and withstand its enemies and competitors. He has constructed muscles and brains more power-

ful than his own.



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