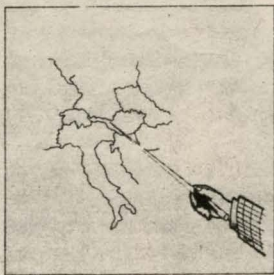


Propellants and Nuclear Reactors—
Energy from Research
in Chemistry



Donald Cotton, 1939 -

Donald Cotton, the technical lead for nuclear chemistry research and development at the Department of Energy, plans, manages, and evaluates research and development on reactor materials and chemistry carried out in DOE national laboratories. He identifies the breeder reactor needs of less-developed nations—an assignment which has taken him to several European states.

Dr. Cotton first worked as a physical chemist at the Naval Propellant Plant at Indian Head, Maryland. From there he moved to the Marine Engineering Laboratory in Annapolis where he worked on the combustion of hydrocarbon fuels and invented a

microwave absorption technique for measuring solid propellant burning rates. Later he researched liquid state chemistry and liquid gas propellants.

His career extended beyond the laboratory. For 2 years Cotton was science editor for Libratterian Books, presenting scientific and technical subjects to lay readers.

Cotton's degrees in physical chemistry include an M.S. from Yale University and a Ph.D from Howard. He has lectured at universities in Africa and South America, has patents to his credit, and has written many scientific papers.

This Black History Sponsored By

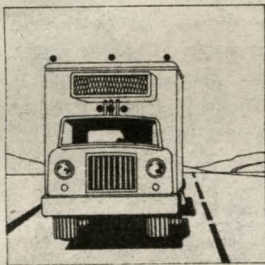
YOUR FRIENDLY

TRADEWELL

STORES

Frederick M. Jones, 1892-1961

Changed Our Eating
Habits with
Refrigeration

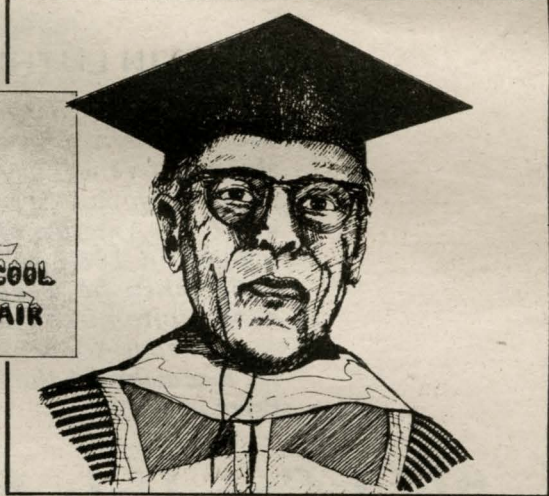
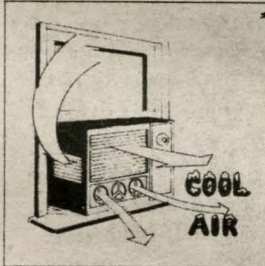


Frederick M. Jones held more than 60 patents in a variety of fields, but refrigeration was his specialization. In 1935, he invented the first automatic refrigeration system for long-haul trucks. Later, the system was adapted to a variety of other carriers, including ships and railway cars. His invention eliminated the problem of food spoilage and changed America's eating habits. In addition, Jones developed an air-conditioning unit for military field hospitals, a portable x-ray machine, and a refrigerator for military field kitchens.

Born in Ohio, Jones served in France during World War I. After the war, he worked as a garage mechanic and, from the knowledge gained in this early experience, developed a self-starting gasoline motor. In the late 1920's, Jones designed a series of devices for the growing movie industry, adapting silent movie projectors to accommodate talking films, and developing the box-office equipment that delivers tickets and spills out change.

David Crosthwait, 1891 - 1976

A Man for all Seasons—
Heating, Air-Conditioning,
and Ventilation Designer



For his outstanding contributions to engineering technology, David Crosthwait was awarded an honorary doctoral degree in 1975 from Purdue University, the same school that had awarded him a B.S. in mechanical engineering 62 years earlier. In the years between, he had received 34 U.S. patents and 80 foreign patents relating to the design, installation, testing, and servicing of powerplants and heating and ventilating systems.

Crosthwait worked for the Dunham Company of Chicago during much of his career and headed its research laboratory in Marshalltown, Iowa. Later he served as technical advisor to the company.

An authority on heat transfer, ventilation, and air conditioning, Crosthwait invented several new systems. He developed the control systems and the variable vacuum system of heating for major buildings including Rockefeller Center in New York City. His writings included a manual on heating and cooling with water and guides, standards and codes dealing with heating ventilation, refrigeration, and air conditioning.

After retiring from industry in 1969, Crosthwait continued to share his knowledge by teaching a course on steam heating theory and controls at Purdue.

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HISTORICAL FACTS ABOUT:

-SAM SMITH-

FIRST BLACK ELECTED
TO CITY COUNCIL
IN SEATTLE

FIRST BLACK PRESIDENT
OF THE
CITY COUNCIL

SERVED FIVE (5) TERMS
IN THE STATE HOUSE OF
REPRESENTATIVES

FATHER OF
SIX CHILDREN

MARRIED
34 YEARS

PUBLIC SERVICE

SAM SMITH was first elected to public office in 1958. He has continuously held office since that time. He is completing his 14th. year term in the City Council. 23 years of public service--longer than any other black.)

RELIGIOUS WORK

His work in the church has matched his public service. SAM SMITH is serving his 21 st. term as President of the Brotherhood of the Mt. Zion Baptist Church. He has been a church school teacher for 25 years and past member, Board of Managers, American Baptist Churches, U.S.A.

CIVIC AND FRATERNAL

SAM SMITH is a winner of the Seattle Urban League Annual Award, a 33rd degree Mason, Prince Hall Affiliate, recipient of the Community Service Award, Central Area Jaycees Honoree, holder of special citations from the YMCA, Civitan Club, Kiwanis and Minority Business Enterprise groups. He was given the Leadership and Service Award by his church.....SAM SMITH has been busy making little bits of history in our city.

PRINCE HALL SCOTTISH RITE ACHIEVEMENT AWARD
THE D.A.R. MEDAL OF HONOR