

W. Donald Cooke  
Through the Years



# As an infant

W. Donald Cooke





As a  
young boy

W. Donald Cooke





# As an Altar Boy

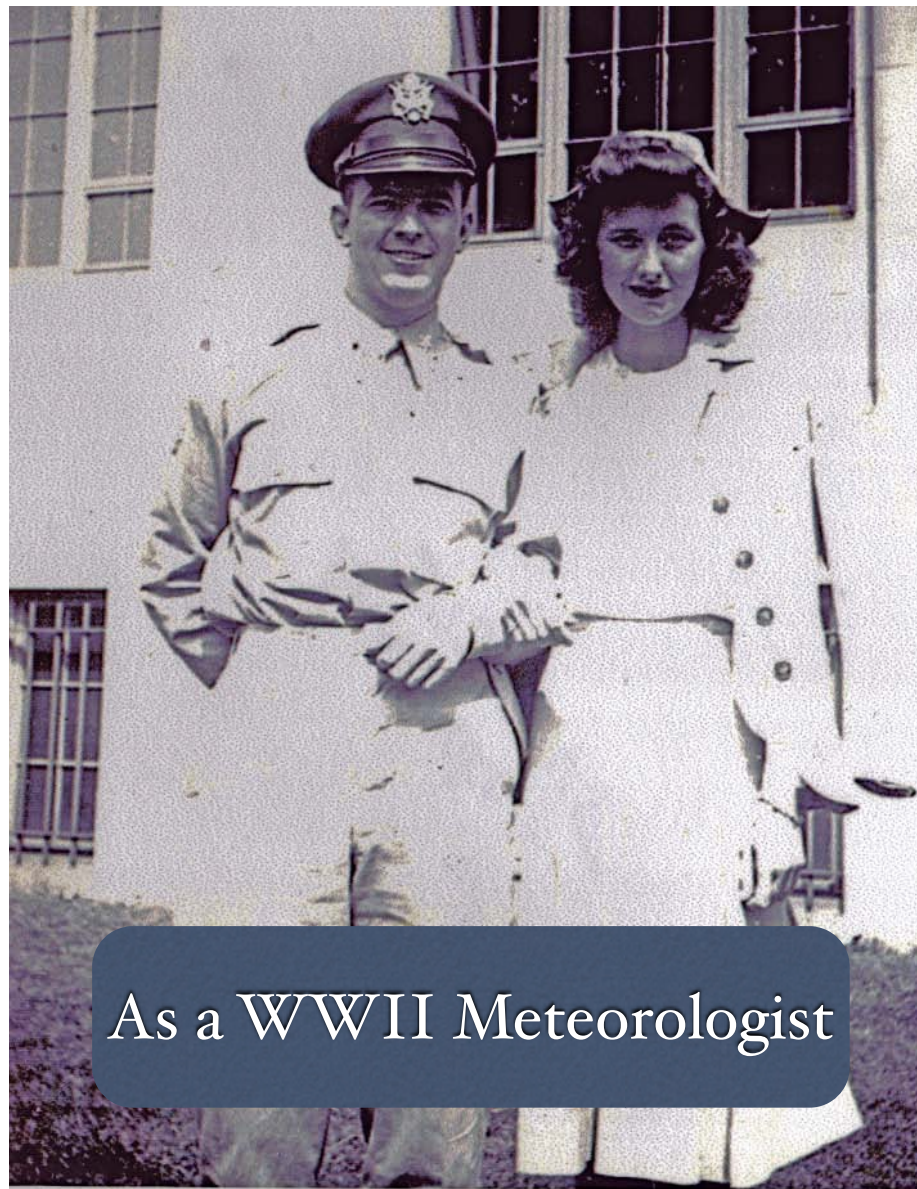
St. James Church  
probably 1926











As a WWII Meteorologist

*At MIT with Don*



Wildwood, NJ, 1939



Saint-Germain, France, 1944







Atoms of high atomic number (U, Th, Ra, etc.) emit **alpha or beta particles** from their nuclei with great energy — as they lose they are converted into new atoms. This process is usually accompanied by the **emission of gamma rays**.

#### Alpha particles

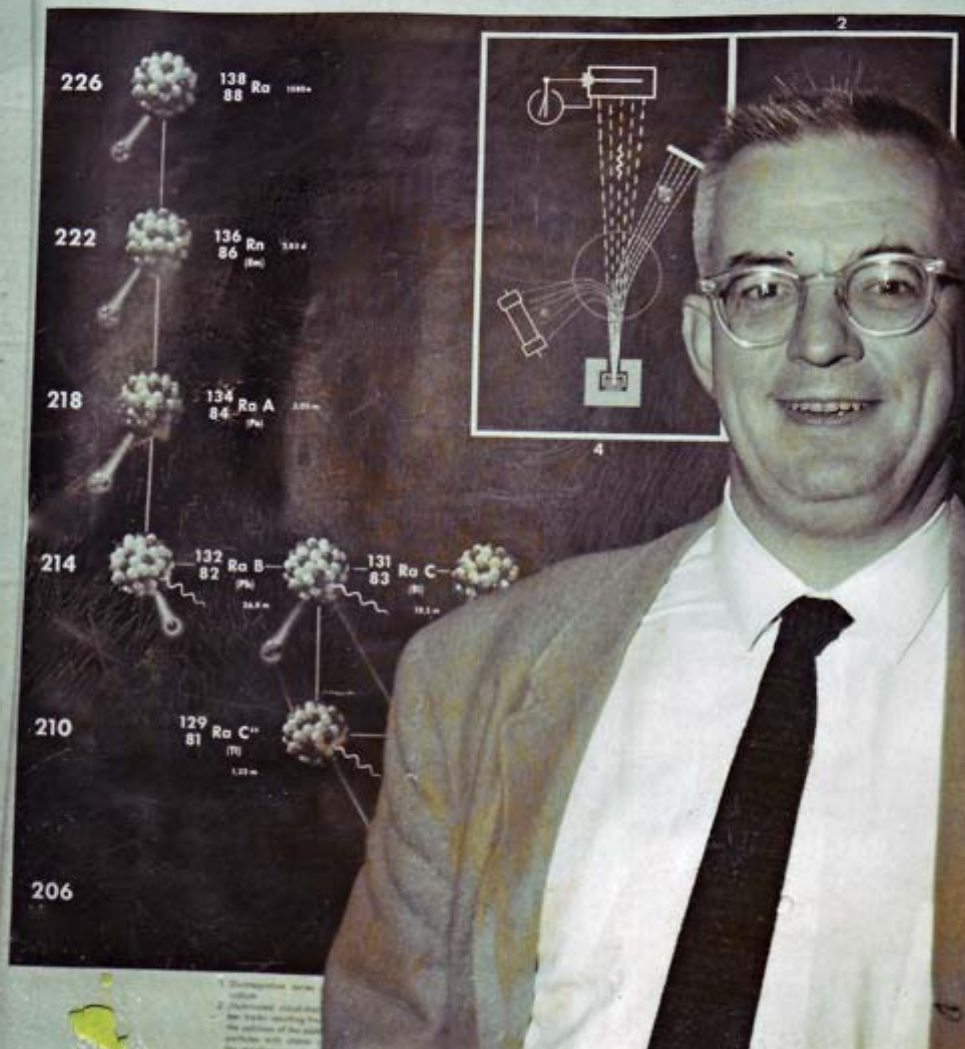
— 2 protons and 2 neutrons  
— Helium nucleus, with 2 positive charges  
— Initial velocity is about 10 - 30,000 km/sec.  
— Energy of the alpha particles:  
— between 4 and 10 million electron volts.  
— Corresponding range in aluminium:  
— from 0.01 to 0.04 cm.

#### Beta particles

— negative electrons  
— resulting from the conversion of a nuclear neutron into a proton.  
— Initial velocity is approximately 300,000 km/sec.  
— Maximum range in aluminium about 2 mm per Me V.

#### Gamma quanta

— very short-wave light rays — hard X-rays.  
— electromagnetic waves or quanta  
— velocity — velocity of light (300,000 km/sec).  
— Energy of the gamma quanta:  
— between 0.1 and about 3 million electron volts.  
— The intensity of a 2 Me V radiation is reduced to one half by 1 cm lead.



As a  
Chemist



11 Apr 1972  
Arecibo Observatory,  
Puerto Rico  
with  
Frank Drake,  
NAIC Director



As a  
Senior  
Administrator

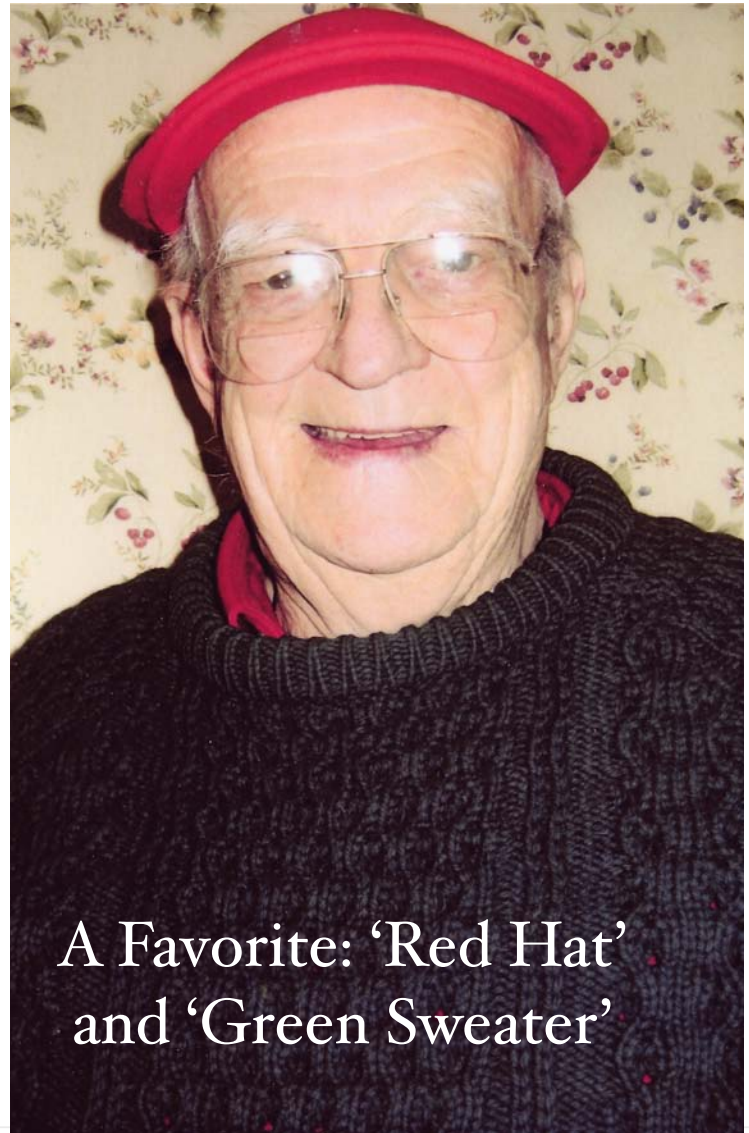
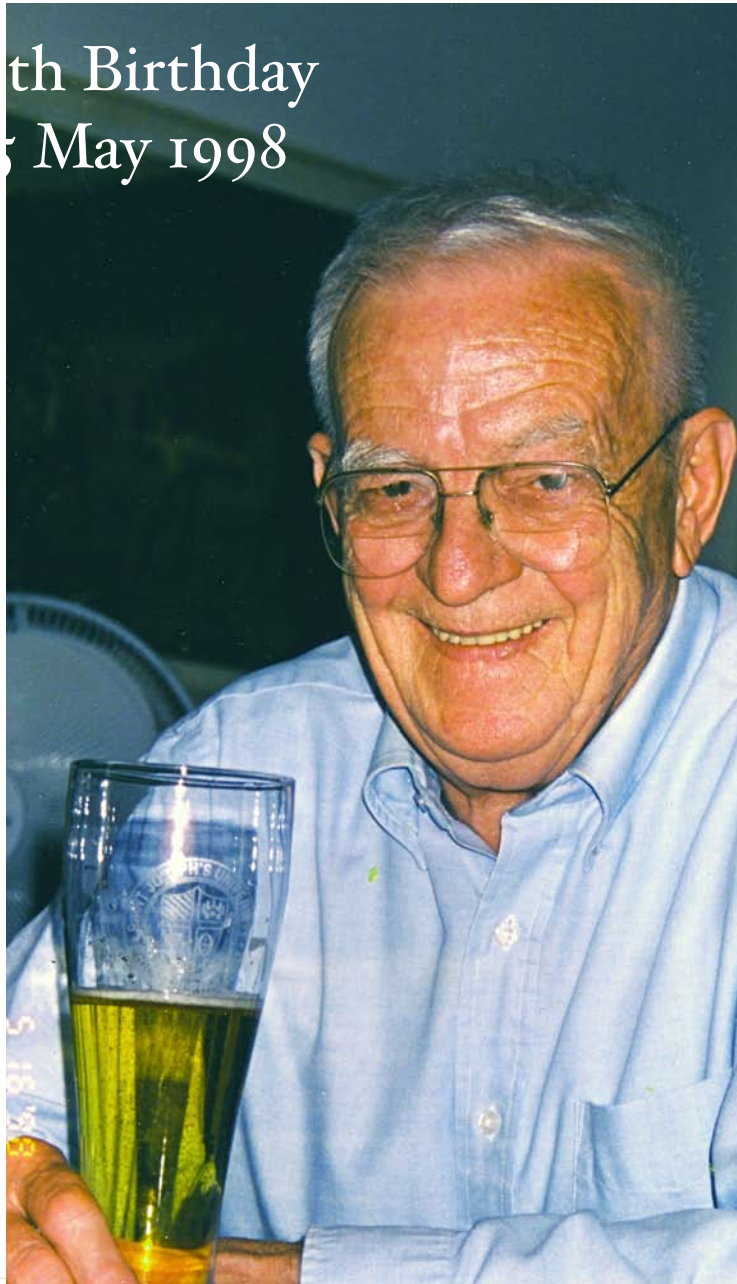


45th Wedding Anniversary, 1991  
Taughannock Farms Inn





th Birthday  
5 May 1998



A Favorite: 'Red Hat'  
and 'Green Sweater'





# June and Don

Brunch at Old Port Harbor Restaurant  
A going away party for a son, 1998





The Don Cooke Tournament  
Cayuga Poker Society – First Tournament, 2002