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**Sydney Chapman, (1st Part: Introduction Dr. Walter Roberts to Chapman Talk, 1966 2nd Part: Introduction William Kellogg) To Chapman Talk, 10/8/65.**

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**Notes: Originals on 7 inch reels. Master copies on CD.**

A man introduces Sydney Chapman. This is Chapman's second talk. He gave his last talk a year or a year and a half ago. In the first talk that he gave about science and scientists, he left off at age 22 or 23. He will start this talk from age 22 or 23 and carry on from there.

The speaker says that the best way he could think of to introduce Sidney Chapman is to read the citation he read on April 26, 1962 on the occasion of Dr. Chapman's receipt of the 24<sup>th</sup> award of the William Bowie Medal of the American Geophysical Union in Washington DC.

The citation starts off by mentioning Dr. Chapman's accomplishments in geophysics and geomagnetism starting with his work in the Royal Observatory in Greenwich, England.

Dr. Chapman's average scientific output has, for half a century, averaged 1 published scientific paper every two months. He is now exceeding that average.

Some scientists that he was influenced by, that he influenced and with whom he collaborated are mentioned.

His work on viscosity and conduction in a simple gas and gaseous mixture, on thermal diffusion resulting necessarily from temperature gradient, on the solar corona, and on solar and lunar geomagnetic variations and tides, on Chapman layers in the ionosphere, on the morphology of magnetic storms, of a ring current above the earth's equator, and on the origin and morphology of the aurora are mentioned.

Chapman is well loved and stories about him abound, focusing on his generosity to poor or struggling scientists, his feats of physical endurance, keen wit, ability to outsmart red tape, and the frequency with which he can pop up in any part of the globe.

The speaker relates an incident that happened in 1955 when Dr. Chapman was in boulder:

Dr. Chapman invited Paul Wild(?) to climb "Green mountain". The hike was arduous but Wild(?), with the advantage of being half Chapman's age, measured up well. Returning, Wild(?) invited Chapman over to rest from the climb. Chapman excused himself saying that he had to catch a bus. It was a holiday the university swimming pool was closed so he had to go to Denver so as not to miss his daily swim.

Astronomers Stibbs(?) and Allen(?) recount an incident that occurred around the same time. Dr. Chapman wanted to bicycle over 150 miles between Canberra and the city of Sydney in Australia. The authorities at the observatory felt that a man of Chapman's age should not be allowed to cycle alone for such a distance. Thus Stibbs(?) accompanied him for the first half of the journey and Allen(?), who had ridden there by train met the pair accompanied Chapman for the second half. It was an arduous journey for the young astronomers.

When a student asked him if it was strange to learn new things from much younger people, Chapman replied, "My dear fellow, if I didn't I would be in a bad way. Nearly everyone is younger than I."

Dr. Chapman's wife, Catherine, and their family are mentioned.

Dr. Chapman's contributions to science and society are mentioned:

He was the president of eight professional societies, was international president of the international geophysical year, a member of 18 scientific societies and has received medals and honorary degrees from societies and institutions around the world. He has served the universities of Manchester, London and Oxford. Now, in his "retirement", he serves actively in the Geophysical Institute of the University of Alaska, and the High Altitude Observatory of the University of Michigan.

The speaker finished reading the citation. The audience applauds.

Another man speaks saying that Sydney Chapman needs less introduction than anyone he can think of. He does announce that Dr. Chapman was awarded the Hodgkins Medal of the Smithsonian Institute on August 17, 1965. The Hodgkins Medal has only been presented a few times in its history. The speaker reads part of the citation for the Hodgkins Medal award. The audience applauds.

The tape cuts out.