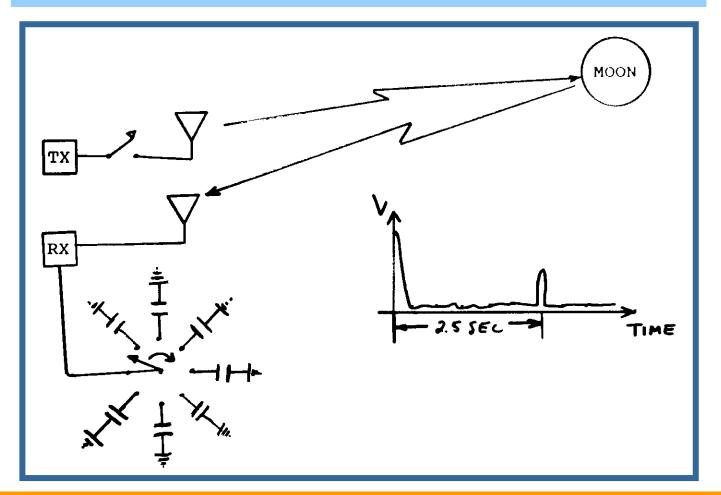
## **FIRST APPLIED IN RADAR**

## DIANA RADAR (115 MHz) 8 KW TO COLLINEAR ARRAY W4ERI IN CHARGE

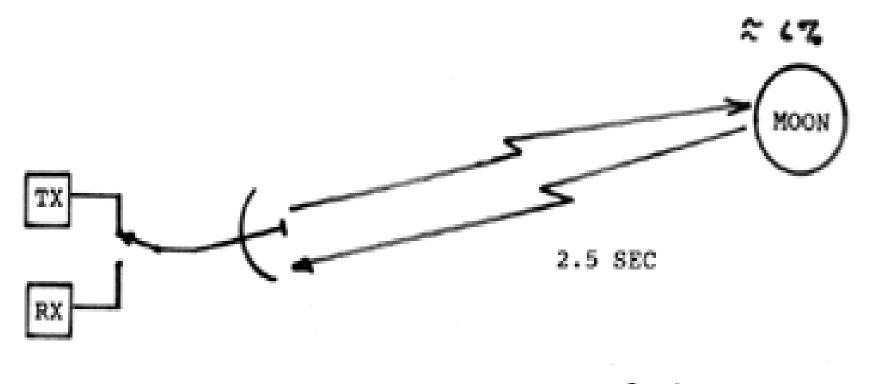


## **ANALYZED REPEATED TRANSMISSION OF A PULSE**

AMATEURS WERE AMONG 1ST TO EXPERIMENT WITH EME COMMUNICATIONS

- ECHOES REPORTED ON 144 MHz IN 1953
- AMATEUR 2-WAY COMMUNICATION IN 1960
- ALL CONTINENTS WORKED IN 1976
- 10 GHz EME IN 1989

## EME SYSTEM



 $P_L = 10 \text{ LOG } (D_M \text{ WL } \sigma/16 \pi^2 \text{ R}^4)$ = 261 dB (AT 432 MHz)

