"Silly girl, you do not know from whom you are fleeing: indeed, you do not, or else you would not flee. I am the lord of Delphi, Claros and Tenedos, and of the realms of Patara too. I am the son of Jupiter. By my skill, the past, the present, and the future are revealed."

-Apollo (Metamorphasis)

"Telstar was a tremendous technical success, and the international reaction was spectacular. A U.S. Information Agency (USIA) poll showed that Telstar was better known in Great Britain than Sputnik had been in 1957. Rather than launching a useless bauble, the Americans had put into orbit a satellite that promised to tie together the ears and eyes of the world."

-Beyond the ionosphere: fifty years of satellite communication

Andrew J. Butrica, United States. National Aeronautics and Space Administration. History Office

National Aeronautics and Space Administration, NASA History Office, 1997 - Technology & Engineering

PROPOSITION

The path of a single figure (Daphne) is triangulated by three actors.

1) Apollo: son of Jupiter, proclaimer of prophecy, a god for lonely poets.

2) Peneus: son of Oceanus, father of Daphne, a river god seeking a male heir.

3) Telstar: child of NASA and Bell Labs, provider of cross continental television programming, the first commercially broadcasting GEO satellite.

NOTES ON GEO

A satellite in Geostationary Earth Obit (GEO) revolves around the earth in the plane of the equator once in 24 hours, maintaining precise synchronization with the earth’s rotation.

\*Introduction to Satellite Communication (B)

One of Apollo’s more important tasks includes a daily chariot ride pulling the sun around the earth.

Oceanus - RIVER OKEANOS, a fresh water stream that circled the

Earths surface. The sun, moon and stars were all believed to rise and fall in its waters.

C band lies in a range of frequencies near GHz where the combination of natural and man made noises sources is a minimum. Hence, all other things being equal, C band requires less signal level to provide good quality communication.

Observation defined in the terms of fundamental matter

(A brief glimpse at wave/particle duality)

1. An experiment is performed in which a beam of photons or electrons (P/E) is pointed at a series of two boards. The closer board has two rectangular vertical forms removed from the center of the surface like so – [ || ].
2. The beam is fired directly at the center point between the holes of the double-slitted board1. A pattern appears on the surface of board2, showing a series of vertical lines, heaviest in thickness at the center of the board, and diminishing sequentially as they approach the edges – [ |**|||**| ].

\*This image is recognized as a diffraction pattern (the result of interference between waves). The pattern implies the beam of P/E exhibit properties of wave/particle duality when being sent through the board.

In order for this to occur each individual P/E would need to pass through each slit simultaneously, essentially interfering with itself in waveform after passing though board1 to create the diffraction image.

1. The experiment is preformed again in order to make sense of the illogical results. Considering that P/E often exhibit properties of particles, the result is unexpected- if the experiment was performed with particles, the images on each board would be identical in shape (the particles would be fixed on board2 as if board1 were a stencil- [ || ]).
2. A monitor is applied to observe the moment in which the P/E must travel through board1. It is meant to establish what occurs when P/E display simultaneity in passing through the slits.

5) The results of the experiment are found on the board2.

The diffraction pattern on board2 has been replaced with a replica of the two slits [ || ]. With a monitor present, the illogical simultaneous behavior of P/E is replaced with the originally expected behavior of particles.

6)The experiment is repeated numerous times, and in every instance:

Without a monitor P/E produces the pattern of wave / particle duality. The identities of P/E are non-fixed, adopting illogical traits of either state depending on their orientation in space/time.

With a monitor P/E produces the fixed particle image.

Things made up of photons:

All light

Things made up of electrons:

All matter