REVISED VERSION (42 lines -366words)

Extraterrestrial Intelligence,

is intelligent life that developed somewhere other than the earth. Such life has not yet been discovered. However, scientific research, including astronomy, biology, planetary science and studies of fossils here on earth have led many scientists to conclude that such life may exist on planets orbiting at least some of the hundreds of billions of stars in our Milky Way Galaxy. Today, some researchers are trying to find evidence for extraterrestrial intelligence. This effort is often called SETI, which stands for Search for Extraterrestrial Intelligence.

SETI researchers decided that looking for evidence of "their" technology might be the best way to discover other intelligent life in the Galaxy. They decided to use large radio telescopes to search the sky over a wide range of radio frequencies. In 1960 the first SETI experiment examined two stars at a single frequency. In October 1992, thirty-two years and several dozen searches later, the National Aeronautics and Space Administration inaugurated its SETI effort with extremely sensitive radio receivers capable of searching tens of millions of frequencies each second. The project, known as the High Resolution Microwave Survey, has two components: a targeted search for weak signals originating near stars that are similar to our sun and a sky survey that will gradually map the entire celestial sphere. The project has developed state-of-the-art signal processing equipment that make this search thousands of times more effective than any before.

There are difficulties associated with searching for evidence of extraterrestrial intelligence. For example, natural sources of radio emission in the universe and communication signals from space satellites and transmitters on earth interfere with our search for weak signals that may be arriving from the stars. In addition, an extremely long time time is required for messages to travel across the vast distances between stars. Another problem concerns the social impact of the detection of extraterrestrial intelligence. Some people think contact with another species would be exciting and would expand our knowledge of the role of intelligent life in the universe. Others caution that the discovery might conflict with certain personal beliefs or that we might not be ready to contact a highly advanced civilization.

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SIGNATURE Michael J Klein
DATE April 10, 1993

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Extraterrestrial intelligence, *EHKS truh tuh REHS tree uhl,* is intelligent life that developed somewhere other than the earth. Such life has not yet been discovered. However, ~~certain studies, including the study of cosmology (the history of the universe) and fossil and geological studies of the earth~~, have led many scientists to conclude that such life may exist. Today, some researchers are trying to find evidence for extraterrestrial intelligence. This effort is often called *SETI,* which stands for *S*earch for *E*xtra*t*errestrial *I*ntelligence.

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on planets orbiting at least some of the hundreds of billions of stars in our Milky Way Galaxy

~~SETI researchers use a number of techniques and devices in their studies. For example, they use large radio telescopes to search the sky systematically over a wide range of radio frequencies. In this way, they hope to detect radio signals from another civilization.~~

Replace ¶ two

There are many difficulties associated with searching for evidence of extraterrestrial intelligence. For example, natural sources of ~~radiation~~ radio emission in the universe and communication signals from ~~the earth would tend to interfere with any signals from another civilization~~ space satellites and transmitters on earth interfere with our search for weak signals that may be arriving from ~~other analogs stars another~~ the stars. ~~[illegible]~~. In addition, an extremely long time is required for messages to travel across the vast distances between stars. Another problem concerns the impact of the detection of any extraterrestrial intelligence. Some people think that any contact with another species would be exciting and would expand ~~the meaning of life. Others caution that contact with another intelligence could lead to conflict with some of our personal beliefs.~~

would expand our knowledge of the role of intelligent life in the universe. Others caution that the discovery might conflict with certain personal beliefs or that we might not be ready to contact a highly advanced civilization.

NEW ¶ two

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