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Scientist shows Earth age difference

WASHINGTON — A Caltech geologist thinks he knows why scientists searching the world have been unable to find rocks older than about 3.8 billion years — even though the Earth is believed to be some 4.6 billion years old.

Dr. Don L. Anderson says the evidence indicates the young globe was blanketed by an ocean of molten rock and that as the liquid "froze," the resulting crystals sank to the

depths of this sea of magma — like sand settling in a pond.

Thus the earliest crystallized rock on Earth probably is buried hundreds of miles beneath the surface.

Anderson, professor of geophysics and director of Caltech's seismological laboratory, outlined his theory at a meeting last week of the American Geophysical Union in Baltimore. He said his ideas were based on a decade of

His theory represents a sharp departure from commonly accepted ideas of Earth's early history that hold the Earth

The key to Anderson's hypothesis lies in Earth's mantle, that semi-solid region between the thin crust of today and

formed with only modest amounts of melting

the molten core. Anderson believes the upper layers of the mantle solidified at different times from the global ocean of molten material into rock of different composition.

The theory is based primarily on the fact that molten rock now coming up in crustal cracks in the middle of ocean floors is chemically quite different from that coming up at oceanic islands and in the interiors of continents.

Anderson said the first forming crystals in the magma ocean would have been more dense than the liquid rock so they would sink. The elements concentrated in the early

crust therefore formed the lower layers of the mantle.

"As the Earth cooled, further lighter crystals began to separate out of the melt and form the upper mantle," Anderson said. "These crystals, however, were depleted in those elements that formed the first layer, making the two layers complementary in their chemistry

Such a scenario explains the absence of an early crust on Earth and the two contrasting magmas found at ocean ridges and ocean islands.

Anderson said the inferred composition of these two layers indicates they resulted from a 20 percent melt of the

300 miles thick if the melted material was on the sum one time. He said the surface probably remained from about 4.5 billion to 3.8 billion years ago.

Sound wave studies have shown there indeed is a

separation in the mantle at depths of about 130 and

Molten rock from the upper layer of the mantle leased where continents separate and where occans form such as in the Hawaiian chain of islands. These Anderson said, contain such elements as potassin nium, thorium, barium and rubidium - which migrate upwards in a molten state.

Molten material from the deeper layer of them emerges from the mid-ocean ridges and Anderson these rocks contain elements that would have mix down in a magma ocean.

When mixed together, Anderson said, the element centrations of the upper and lower layers of the would approximate the average composition of the layers

Suppliers must face situation here to survive

Japanese computers gain in U.S. sales

United Press International NEW YORK — Japanese computers, unlike their autos, are not yet a major presence in the United States, but they are slowly gaining a firm foothold.

Mirek J. Stevenson, chairman of Quantum Science Corp., which specializes in evaluation of the impact of technology on business,

companies have strong technological capabilities which will pose a threat in the new rapidly emerging computer departmental information processing and teleconferencing markets of future office

"These technological capabilities are particularly strong in such areas as communications, video compression, speech recognition, non-impact printing, telecon-ferencing, facsimilie and personal computers," Stevenson told the

ican Institute for Professional

He said the merger of computer, communications and officerelated technologies will give the

Japanese a big advantage, unless properly faced by U.S. suppliers. Analyzing on a company-bycompany basis, he said: —Fujitsu Ltd., focuses its re-

search efforts on such leading edge technologies as pattern rec-ognition, cassette bubble memor-ies, Kanji (Japanese character)

K-RAM (random access memory) chips. Fujitsu overtook IBM Japan Ltd. as Japan's leading computer vendor in the Japanese fiscal year 1980, ended last March, for

the first time in history with \$1.5 billion volume vs. \$1.3 billion.

—Nippon Electric Co., with telecommunications revenues of \$1.5 billion and electronics data processing system revenues of \$959 million, is strong on fun-damental technologies, such as optical fiber components and systems, bubble memories and solid state devices, speech recognition and robotics.
—Hitachi Ltd. registered \$982

million in computer sales, ranking third in Japan, and its goal is to export 25 percent of its compu-

steps. It now exports 7 percent.

Stevenson said he does not think the Japanese Ministry of International Trade and Industry runs the whole show in the Japanese computer industry, adding Japanese computer makers are competing fiercely among

Edward Lesnick, assistant to the president of Wang Laborator-

ies Inc., disputed Steven

He argued the Japanes ernment has been picking of the research and develo expenditures for Japanese tic computer manufacture specifically has limited its and purchase of computer tive-owned companies.

These practices, he said effect force individual Ame computer companies to a

with the Japanese government Frank R. Kline Jr., an awith Drexel Burnham Lam Inc., the Wall Street House Ellen St recently published report, another the Japanese pose a serious to U.S. manufacturers of our ter parts, peripherals, in rocessors and small desktop puters, which he expects to rialize over the next 24 h months.

Kline forecast Japanese of computers and their nents to the United State grow at an annual clip of 2 cent over the next nine year

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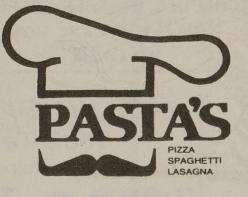
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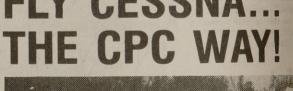
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