

S.L. MILLER'S EXPERIMENT:

WATER VAPOR, METHANE, AMMONIA, HYDROGEN

ELECTRIC DISCHARGE, COOLING JACKET

AMINO ACIDS, BUILDING BLOCKS OF PROTEIN

THE EVOLUTION OF LIFE IS NOT A CHAIN BUT A NETWORK. THE BLACK BRANCHES REPRESENT THE FORMS KNOWN TO MAN.

PLANT WORLD

ANIMAL WORLD

PRELUDE TO LIFE:

THE SEA IS A WARM, STERILE, DILUTE, SALTY BROTH. IT SWARMS WITH SIMPLE PROTEIN MOLECULES—COMBINING, DISSOLVING, RECOMBINING INTO MORE COMPLEX MOLECULES. FINALLY, THE FIRST ONE-CELLED ORGANISMS APPEAR.

"And God said, Let the waters bring forth abundantly the moving creature that hath life..."—Genesis.

Scientists generally agree that life must have begun in the sea, some two or three billion years ago. It is also believed that it remained there for hundreds of millions of years, multiplying and growing more complex, while the land itself remained barren.

Exactly how life (that is, the forms of behavior in matter which we call living behavior) began is a matter of speculation. It is probable, however, that the first living things were simple protein molecules, the basic components of all organisms. But first had to come amino acids, the chemicals from which protein molecules are formed.

In 1953, Stanley L. Miller, a 22-year-old pupil of famed chemist Harold C. Urey, actually synthesized amino acids in the laboratory. Reasoning that earth's primitive atmosphere must have consisted of water vapor, methane, ammonia and hydrogen, Miller created amino acids in such a mixture by means of a spark.

In 1956, Army Quartermaster Corps researchers also made amino acids in a similar experiment using atomic radiation instead of electricity.

These experiments indicate that living matter could have arisen spontaneously from nonliving matter. The next great step was the appearance of one-celled organisms (not, contrary to popular opinion, the relatively complex amoeba). Later came photosynthesis, the ability to manufacture energy from sunlight. Still later, life divided into its two great kingdoms—plants and animals.

Oxygen, the by-product of photosynthesis, eventually formed a layer of ozone high in the atmosphere that absorbed the deadly ultraviolet radiation from the sun. This enabled organisms at last to emerge from the water and exploit a whole new area.

The complete story of evolution will never be known, for the first creatures were soft-bodied and left no records in the rocks. An era of millions upon millions of years is closed to man's direct investigation. The fossil records we have, though abundant, give only a glimpse into the infinite complexity of evolution.

NEXT: Invisible Worlds

committee that "I would prefer employment compensation, West Virginia's depressed areas, international trade, handling of government contracts, and special problems of the labor force. This is not a study group." Douglas insisted. "This subject already has been studied in great detail. The facts are known. What we need now is action."

Kennedy named the task force to recommend ways of helping regions with economic troubles, and Douglas said that "West Virginia is a most conspicuous example of what the committee is faced with."

He added: "But there are also other areas in critical shape—southern Illinois, Kentucky and Pennsylvania; the textile areas of New England; and other areas where natural resources have been exhausted such as around the Great Lakes."

Six subcommittees will form recommendations on area development, food distribution and un-

CHARLESTON, W. Va. (AP)—Look for West Virginia, with its particularly critical economic problems, to get permission to carry out pilot ventures in a vast new area redevelopment program.

That was the word from Sen. Paul Douglas, D-Ill., and others after the 21-man task force Douglas heads laid the organizational groundwork Friday for recommendations it will give President-elect John F. Kennedy by Jan. 1.

Subcommittees of the big group will meet next Wednesday, Thursday and Friday in Washington. Then they'll reconvene on Dec. 27 to formulate the over-all recommendation for assistance to economically depressed areas.

Douglas told newsmen after the five-hour closed session of the

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Secretary of State Christian A. Herter, acknowledging that he was confused by developments in the Southeast Asian kingdom, offered this broadcast to reporters as a bit of "clarification."

Science Shrinks Piles New Way Without Surgery Stops Itch—Relieves Pain

New York, N. Y. (Special)—For the first time science has found a new healing substance with the astonishing ability to shrink hemorrhoids, stop itching, and relieve pain—without surgery.

In case after case, while gently relieving pain, actual reduction (shrinkage) took place.

Most amazing of all—results were so thorough that sufferers made astonishing statements like "Piles have ceased to be a problem!"

The secret is a new healing substance (Bio-Dynes)—discovery of a world-famous research institute. This substance is now available in suppository or ointment form under the name Preparation H®. At all drug counter

Stubborn Man Chooses Eight Years In Jail To Alimony

WOODLAND, Calif. (UPI)—Eight years ago, a judge offered Fred Block a very simple choice: "Either pay your wife the money you owe her or go to jail."

Fred chose jail and has been there ever since, except for two months after an escape last June.

Fred could have paid Fern the \$750 he owed for alimony and a child support. He had enough money then and he has even more today.

But he also had a reason. "I was married to that woman 25 years and I just didn't think she deserved it."

So Fred sits in Yolo County jail playing solitaire and reading detective novels. Every so often, Judge C. C. McDonald calls him

into Superior Court to ask if he's changed his mind.

"No," says Fred. "And I'm never going to."

Such obstinacy is surprising in a man of his meek and bashful appearance, who reminds one of an elderly church deacon chosen not for his leadership but for his charitable willingness to clean up the Sunday school every week.

And though Fred has grievances against his wife, he sometimes wonders himself why he won't relent.

"I've never felt this strong about anything else," he said.

The grievances go back to 1925, when Fred and Fern were married. The place was Kansas, where Fred and his brother operated a 240-acre farm. The groom was 32 years old.

"I waited so long all the good ones got by," he said.

According to his side of the story, "She never helped me with the farm work. She was always on a diet so I never got enough to eat. And she was always wanting to go dancing."

Fred said that he began drink-

ing because of these alleged hardships. But no matter the reason, his wife was ready for a divorce shortly after they came to California in 1948.

What kept them together so long, Fred said, it was their two daughters, both of whom are married and have homes of their own.

The courts agreed that his wife should have a divorce, and awarded her alimony and child support

in an order of August 1951. Fred went to jail in July 1952 because of his refusal to pay.

When confinement began wearing on Fred last June, he escaped by walking from an outside work party.

"I hummed around and drank a little and went to visit my wife," he said, "but she wouldn't even open the door when she saw who it was."

But his wife didn't turn him in. Officers picked him up several weeks later when he tried to get money from his \$1,000 savings account in a local post office. Fred has an additional \$1,100 in the sheriff's office, an amount built mostly from his \$62-a-month social security checks.

"Now why doesn't he pay her," said Fred's jailer, Deputy Cadet Cline. "If that isn't stupidity, I don't know what is."

But a prisoner, standing by dis-agreed, "I admire him. If I had his will power, I wouldn't be here," he said.

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Medical Mirror

WHAT DOCTORS SAY ABOUT

Girdles

- Late Walking
- Tea In Hospitals
- Milk And Eczema

Q. I know several women who won't wear a girdle because, they say, it weakens the abdominal muscles. Is this true?

A. All voluntary muscles respond to normal activity and use by developing tone or "firmness" even when the muscle is relaxed. When continued support is provided to muscle, there is less work done, and, as a result, the muscle becomes weaker. It is doubtful, however, that the modern garments now available to women give enough support to weaken the abdominal muscles.

Q. My two-year-old hasn't yet tried to walk. Could something be wrong?

A. Late walking is sometimes a family failing, and this calls for no concern. However, before this optimistic view can be taken, late walkers should have a medical checkup.

Q. My husband says that tea is as hard on the system as coffee. If so, why do they serve tea in preference to coffee in hospitals? Does tea contain caffeine?

A. Tea contains caffeine, tannin and aromatic substances. So does coffee. Both are mild stimulants and mild diuretics (increase kidney action). Tea is said to promote stomach emptying and does not upset stomach secretions. However, since tea and coffee are not too different chemically, the supposed advantages of tea over coffee may be due to psychological factors associated with the tea-drinking ritual.

Q. Is goat's milk helpful in treatment of eczema in babies?

A. Eczema in children is generally considered an allergic condition. If a baby or young child is allergic to cow's milk, the replacement of cow's milk by goat's milk would probably help.

TOOK THE GAS

GAINESVILLE, Ga. (UPI)—Woody Teasley was promptly arrested Friday night when he pulled his car up to a gasoline pump and told the uniformed man to "fill her up."

The pump was a private one serving the state Highway Patrol barracks here. The uniformed attendant was Patrolman Porter Weaver.

Weaver decided Teasley was driving under the influence of alcohol.

Outmoded Voting System Is Real Shock To State

SACRAMENTO (UPI)—It was a shock to most Californians to wake up Wednesday, Nov. 9, and discover it still wasn't known whom California had chosen for president.

The nation's second most populous state has one of the more outmoded voting systems. Thus the long delay—two days—before the tally was completed except for absenteees.

A serious movement already has started to oil the squeaky machinery for faster future counts.

An estimated 150,000 election workers showed up promptly at 7 a.m. in 30,000 voting precincts Nov. 8 to help herd the voters through the process of obtaining paper ballots, marking them and handing them back.

One Modern County

Of the state's 58 counties only one—San Francisco—has modernized its vote tabulating system. As a result the state knew before midnight how San Francisco County went.

The state also knew how Alpine County's 150 votes were cast.

But other counties in the state dribbled in slowly. The biggest county is Los Angeles with 40 per cent of the state's population and a total presidential vote in this election of 2,626,000.

Paper ballots are used for voting in this large county.

It was Thursday, two days after the election, before the votes were all counted.

Unofficial tabulations at that point gave President-elect John F. Kennedy a 35,000-vote edge out of more than six million votes counted. But there still were 250,000 absentee ballots to count. They ran 60 per cent for Vice President Richard M. Nixon—and they gave him the state by about the same margin, 35,000 votes.

Week Was Required

It was Wednesday, Nov. 16, more than a week after the election, before the absentee count pushed Nixon over and

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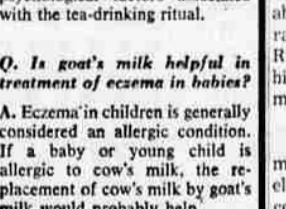
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CONFUSIFICATION

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