New Year Special

TS easy to reduce the year's science events to three words - life on Mars, reports AP.

But it would be a mistake. When NASA scientists said this summer that they had found evidence for life on the red planet, they added but an episode to this year's hottest scientific drama, a revolution to significant that it is changing our conception of life in the universe.

In the last year, a number of findings have all but convinced scientists that life is not just a freak accident that could only happen on Earth, but a ubiquitous and irrepressible part of the universe.

"It's every bit as profound as the revolutions that were brought about by Copernicus and Darwin on our place in the universe," said Steven Squyres, a planetary scientist at Cornel University in Ithaca, New York.

And it's not just the famous potato-sized meteorite bearing chemical signs of microbial metabolism.

The evidence for life on Earth was pushed back this year, to an extremely inhospitable era when Earth was a barren planet constantly bombarded by giant asteroids. If life survived - and probably even arose - under those conditions. where else in the universe could not be hiding out?

Perhaps near one of the nearby stars which are now known to have planets circling them. Only one such planet was know at this time last year, but now there are about a dozen. several of which appear hospitable to life.

Closer to home, the Galileo spacecraft has begun exploring a little-known corner of the solar system that could harbor life. On Dec. 19 the spacecraft took a close look at Jupiter's moon Europa, which some researchers consider even more promising then Mars as a po-

tential garden spot. And researchers also got a clearer sense this year of how life develops. The genetic analysis of an ancient microbe revealed secrets about how the

RE you on a diet right

▲ this, go and get yourself a

large packet of potato chips

followed by chocolates and an

ice-cream. Drop your dieting

programme today. You don't

need to get slim. You look good

as you are. Just think that you

look great with that figure you

have when you stand in front of

a mirror. Better still, avoid

mirrors. Why do you need to

starve yourself so that someone

changed etc. while inside they

are thinking, "Doesn't she took

like a broomstick."? You should

think yourself blessed that you

are getting to eat. And how do

you know that five years from

now you will get to eat your

full? A country has to feed so

many mouths that maybe after

some days you will get only a

fixed amount of food per meal

In your great-great-grandfa-

You look great, you look

else can say, "Wow!

Before reading

Looking For Life?!

by Matt Crenson



tree of life is organized. This summer scientists announced that they'd sequenced. the genes of Methanococcus jannaschii, a microbe that lives near hot vents at the bottom of the ocean. M. jannaschii, as scientists call it, is a member of the archaea, an arm of life separate from animals, plants and

By comparing archaean genes to yeast, bacterial and even human genes, researchers hope to write a history of evolution from beginning to present. That history could reveal clues about what molecular processes are common to all life on Earth. and thus were probably present in the every earliest life, and which ones are innovations

that came later on. "Understanding these organisms is going to get us a lot closer to understanding the origin of life. But it won't answer the question of whether lie originated here or someplace else, said Craig Venter, president of the Institute for Genomic Re-

There is virtually nothing

that you can learn from food

labels. All labels are written in

label jargon, such as "This food

product contains not less than.

02% of rehydroxylated gluto-

That question became a little more interesting when a paper in the journal Nature presented evidence that rocks from

Greenland hold chemical evi-

dence that life existed 3.85 bil-

lion years ago. That may not sound too much older than 3.5 billion years ago, the previous earliest evidence for life on Earth. But to scientists who study Earth's early history, the 350-millionyear step is a quantum leap into

an era of violence and chaos. Until about 3.8 billion years ago. Earth was under regular bombardment by the giant debris left over from the formation of the solar system. Huge asteroids, some big enough to vaporize the oceans, smashed into the young planet.

If the first microscopic creatures developed under such conditions, then life is tough

Maybe even tough enough to develop in some of the newfound worlds around distant

stars. This year who stars-47 Ursa Majoris and Lalande 21185 — have been discovered to have Jupiter - like planets.

"It actually shows that we're not very special," said William Cochran, a planet hunter and astronomy professor at the University of Texas in Austin. "Any time that we've though that we here on our Earth and our solar system and our sun have been special in any way, we've been proven wrong."

The rest of the dozen or so planets that have been discovered circling distant stars follow orbits too misshapen to sustain liquid water. Or they suffer from Goldilocks syndrome, being too hot or too cold to have water on their surfaces.

But it's important to remember that the planets that have been discovered so far are mostly giants like Jupiter that orbit relatively near their stars, Cochran said. Those are the planets that are easiest to find using the methods that astronomers employ, not necessarily the ones most representative of what's out there.

"The ideas of how to look for Earth-like planets will evolve through time," Cochran said.

Jupiter's moon Europa is nothing like Earth, but scientists also cite it as a possible future stop on the Homes of Life in the Stars tourist map. That's because Europa is thought to have a liquid water ocean beneath its icy exterior.

There's only a slim chance that Galileo will be able to detect that hypothetical ocean. But a future mission probably will.

And any environment on Earth that has liquid water, nutrients and a volcanic heat source inevitably has life. So Europa's possibilities are tantalizing.

In the meantime we'll have to settle for Mars. The red planet almost certainly had the conditions necessary for life early in its history, and may still have them today. So even those who remain unconvinced by the data presented this summer are hopeful that life will eventually be found there.

A Sad Retribution

by ASM Nurunnabi

nium or abstract of debentured ISAL'S cousin aged soybean, whichever comes about nine years, Rafiq first". The more jargon you see. by name, reads in a mothe more likely it is that the lafussil school. Risal is also of bel-writer has something to the same age. Rafiq has one good quality: he is studious and always does well in So what is recommend is, examinations. As a reward for instead of trying to understand the words on the label, simply his consistently good academic performance, Rafiq's father figure out the average number on syllables per word. If the avgave him a five-hundred taka erage is two or below, the prodnote with permission to visit uct is probably safe in small his cousin in Dhaka city for a quantities. If the average is week during the school vathree or four, it probably causes cation. To supplement his fund, grave concern in laboratory Rafiq's mother gave him a rats. If the average is five or small amount of money in curmore, you should set the conrency notes of small denominations in order to enable him tainer down very carefully and to cover the expenses of his bus

journey to the city. Vitamins are little pills Rafiq was highly elated by named ABCD. E and K that you the large amount of the monetary reward so much so that he felt a sort of attachment to the five-hundred taka note. He accordingly did not feel like spending any part of it on any account. In spite of his virtue

hundred taka note and repay the amount of expenditure incurred by him on Rafiq's ac-

Then a sort of mishap occurred in Risal's household. The domestic help in the household used to wash clothes of the family, including those of Risal. When Risal and his cousin were taking a nap after the mid-day meal, the domestic help mistakenly thought that Risal's shirt needed washing. Actually it was Rafiq's shirt. By the time Rafiq woke up, the mischief was already done. The domestic help soaked the shirt in a washing powder-mixed bucket of

When Rafiq woke up, he found his shirt in the bucket of water with the five-hundredtaka note inside its pocket. He made a dash to the bath-room to retrieve his shirt. He was stunned to find his five-hundred-taka note in a crumpled state in the shirt pocket. He took it out and hastened to save it by drying it as far as possible

wards the reward was a definite

blot on his otherwise good na-

and attainment in the academic

field, his peculiar attitude to-

However, with the small money that his mother gave him in one-taka currency notes. Rafiq undertook his bus journey to Dhaka to visit his cousin's house.

Risal, his cousin in the city, and his mother were happy over Rafiq's visit. They were already good friends. After Rafiq's arrival, Risal felt that his friend should see some of the places of interest in the city. They began their pleasure trip with a visit to the zoo. At the entrance gate of the zoo, an admission charge is required to be paid. Rafiq told Risal that he had no change for the admission ticket, as he had a five-hundred-taka note with him. Risal understood the position and paid for Rafiq's admission ticket. They enjoyed themselves greatly inside the zoo. On the return trip home by bus. Rafiq repeated the story of his not having small change. Risal paid his bus fare

Next day in the afternoon. they decided to visit the children's park Here again Rafiq expressed his regret for not having the change for admission to the park. He requested Risal to pay for the admission charge on his behalf. Within the park. both of them went on a spree. eating chatpati. fuchka. peanuts, etc. For consuming all these items. Risal had to foot the bill, as Rafig still continued his story of non-availability of change to meet his share of the expenses. At heart, Risal was flustered, because his fund of pocket money given by his mother, was rapidly dwindling. Risal wondered when Rafiq would be able to encash his fivein the sunshine. Though severely distressed

by the unexpected event, Rafiq was advised that the currency note was not totally lost, as he could have it changed at the Bangladesh Bank. Accordingly. Rafiq, with a heavy heart, undertook the painstaking job of commuting to Bangladesh Bank for having the note changed. The changing job was not easy in the midst of heavy rush of people queuing up for the same purpose at the bank counter. He could not get the work done by a single visit to the bank on account of several formalities. Next day, to avoid rush of people at the specific bank counter, he took his position in the line very early in the morning. At last, after a long wait, he was able to get the damaged note changed and he felt relieved. But the long period of tension and anxiety that Rafiq went through while the five hundredtaka note was waiting to be changed, taught him a salutary lesson: he should not have felt so much attachment and love for his five hundred-taka note. He immediately converted his big denomination note into smaller denominations and repaid the dues to Risal

first University

of DAKAITS

vicience

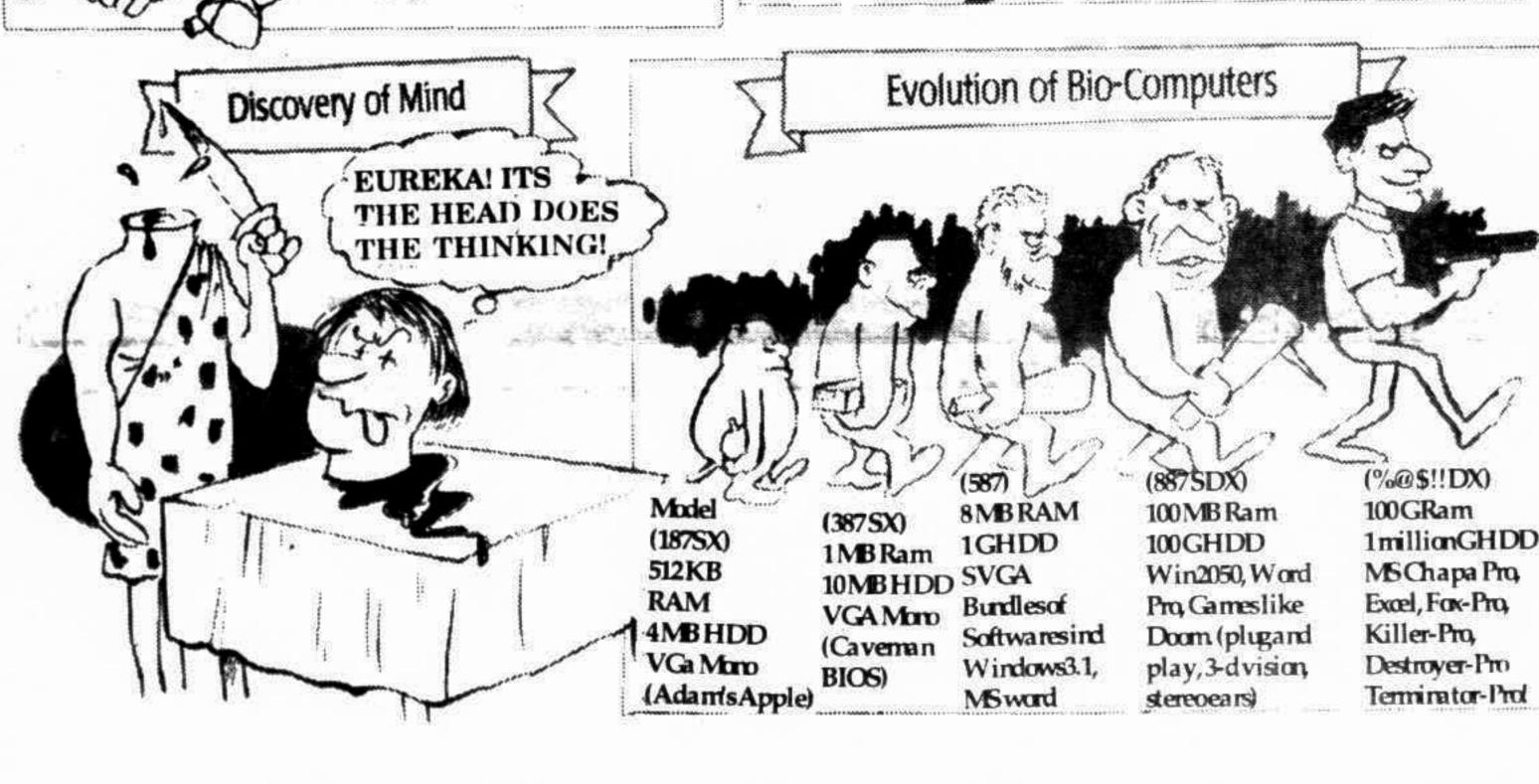
Thereafter. Rafiq had no intention of staying back in the city any longer. By this time, his fund of money had depleted on account of journeys by bus and rickshaws to the Bangladesh Bank covering a long distance from his cousin's home and also on account of repayment of the outstanding dues. With the small amount still left with him, he managed to buy his bus ticket for his journey home.

Lesser Known moments of DISCOVERY

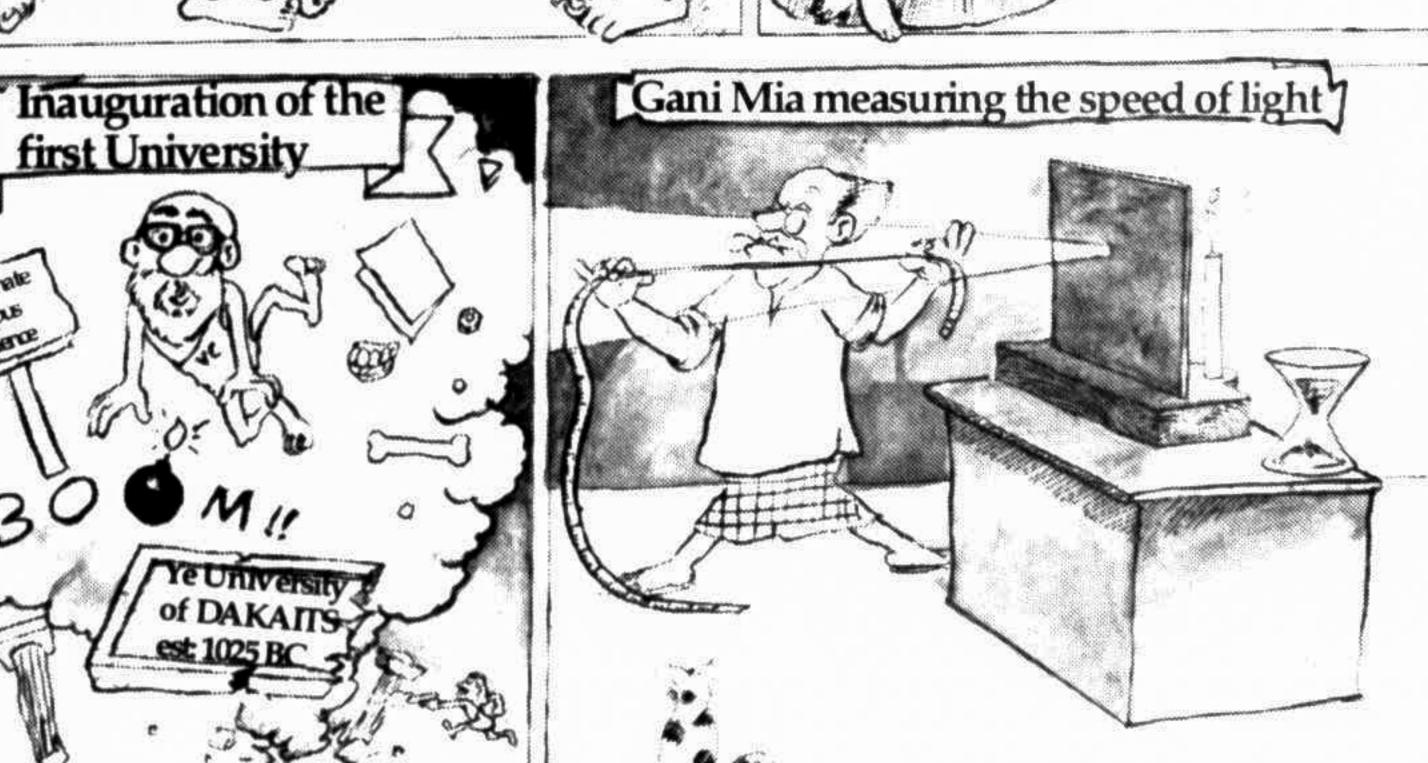
discovered by Sharier Khan

Discovery of Rock Music









On A Diet?

by Syeda Mushrequa Shabber

ther's day, nobody had to worry about proper food and nutrition because people lived on farms and ate wholesome, natural foods.

Today, unfortunately, most cows are grown by giant multinational corporations, who feed them harmful preservatives day and night. This is why it's important in today's world that you watch what you eat, at least until you get it inside your mouth. After that it gets pretty disgusting.

Your digestive system's job is to turn food into useful body parts. To save itself a lot of aggravation, your digestive system has a policy whereby it turns the food into the body part most similar to it. Thus hardboiled eggs become eyeballs, cauliflower becomes brains and so on. If you eat a food that does not resemble any known body party, your body turns it into fat.

are recommended to have certain amounts.

flee the vicinity.

Physicians think vitamins were the greatest thing since luxury automobiles. The truth is that vitamins are very good for you, and each morning you should take a vitamin-A, followed by vitamin, D then by E and so on until the end of the day. Don't forget to start all over again the next day. This will probably be enough vitamins for you, but keep alert for the three Major Warning Signs of vitamin Deficiency, which are, 1. nosebleeds, 2, thick coats

on in summer, and 3 death. Even after all this, if you insist on dieting, then you are welcome. But, don't start your new diet today. You've done enough today; I would rule tomorrow out, also, seeing as how it comes so soon after today would say the best time to begin would be first think after this

Dancing in the Graveyard by Asif Azam Siddiqi Joy

A field of green and a crop so pure L Covered by shadows and a disease with no cure The family broken up and the parents died As war burned down there was nowhere to hide The rape of the soul inside.

Rise up and heed the call to arms From concrete to grass, from cities to farms Fight for the taste that bled from your heart And the woman and child who were torn apart The seeds planted in our graveyards

Savour the feeling, raise up the flag Fight for the purity of our children in rags Light up the torches, bury temptation Would you stand steadfast for your own nation?

Victory secured and the flower was saved As they opened their eyes to ask back what they gave I never learned my lessons, only knew it in part As I rebuilt my conscience right from the start But I was only dancing in the graveyard

Savor the feeling, raise up the flag Fight for the purity of our children in the rags Light up the torches, bury temptation Would you stand steadfast for your own nation?

A history book later, gone invisible notes We send off our children to acquire Western codes As we leave, we turn back to glance at the heart Lies and cheating bleeding each part All of us dancing in the graveyard