Tofael Ahmed Recalls Those Tumultous Days

I Can Well Read the People's Minds, Mujib Said

HE new flag of Bangladesh that was unfurled on March 2, 1971 by ASM Abdur Rab, the then Vice President of Dhaka University Central Students Union (DUCSU), at the university campus was actually designed a year ago, recalled Awami League [AL] leader Tofacl Ahmed, emotionally.

While recollecting the golden memories of the incidents taking place in the historic month of March, 1971 Tofacl told the Daily Star, that the flag was designed by Abdul Mannan, an Art College stu-

The flag was used at a rally held in observance of the first death anniversary of Sergeant Zahurul Huq on February 15,

'And I was carrying the flag that day, Tofael added

The flag designed then was

bottle-green back ground.

Tofacl Ahmed served as the Vice President of DUCSU from 1967 to 1969 and was President of the Chhatra League from March 1969 to March 1970

During his second term in DUCSU, Tofael discharge the responsibility of convener of the Central Students Action Committee that virtually led the mass upsurge of 1969, resulting in the ouster of dictator Ayub Khan from power and creation of prelude to the Liberation War two years later.

In the general elections of Dec 7,1970, Tofael was elected to the Pakistan National Assembly (PNA).

Requested to recall his state of mind as well as that of Sheikh Mujibur Rahman when-General Yahya Khan announced the postponement of the opening session of the PNA on a golden map of Bangladesh March I, 1970, Tolaci said. set on a red circle against a "Well, the whole nation got

By Nurul Kabir

stunned for a moment at the announcement! It however became clear to us as well as to

the freedom-loving entire people of the country that there was no alternative but to decide the next course of action with a view to liberate the country from the grip of the Pakistani ruling circle and get rid of 24 years of humiliation.

"People were pouring in their thousands into the streets and all roads led to the Purbani Hotel where Bangabandhu was presiding over an AL parliamentary party mee-

"Bangabandhu, responding to temperament of the people gathered around the hotel called for hartal on March 2 and 3, in protest of Yahya's announcement and assured the gathering that the conspiracy hatched by the Yahya regime

would not go unchallenged." Tofacl recalled.

The announcement of his torte March 7 rally also came from Mujib that afternoon, he added:

Meanwhile the independent Bengal Students Action Committee (IBSAC) came into being and the then DUCSU VP unfurled the new flag of Bangladesh in a mammoth student gathering on the Dhaka University campus on March 2.

The student leaders called people to burn down the Pakistani flag and hoist the new Bangladesh one on each and every roof top.

On March 3, HISAC organised the historic rally at Paltan Maidan, were Shajahan Siraj, with the new flag of Bangladesh flattering overhead, pronounced, "Independent and sovereign Bangladesh has been declared."

An IBSAC declaration was also read out by Shajahan Strai which urged the people, along with other things, to form libcration army to combat the regular army of Pakistan with a view to liberating Bangladesh. Bangabandhu was present

in the meeting and from the same dias he announced nonviolent, non-cooperation movement against the Pakistani regime which set virtually the direction of the uncompromising movement for the next 22 days," Tofacl emphatically

Replying to a question. Tofact informed the Daily Star that IBSAC leaders especially ASM Rab. Shajahan Siraj, Nurc.Alam Siddiqi and Abdul Kuddus Makhan used to work under the direct control. Of a four-member group comprising Sheikh Fazlul Huq Moni, Strajul Alam Khan, Abdur Razzak and Tofacl himself while this group worked at the directives of Mujib during that

When asked why did Mujib attach so much importance to negotiations with Yahya Khan during the tough days of March, Tofacl said, "although Bangabandhu was convinced

that the Pakistanis would not transfer power to the Bengali people, he continued discussion only to show the international community that the Bangalis left no stone unturned to achieve their rights through

peaceful means. Side by side with dialogue with Yahya Khan, Mujib used to instruct us to prepare for the alternative means of realising the objectives of our people. Tofacl added

"To be more particular about Mujib's urge for liberat ing the country from the grip of Pakistanis, I can cite an example in which Mujib, back in October 1969, met an important agency personnel of a neighbouring country in London and tried to reach an understanding that a group of 25 Hengali youths would go to that country every month to receive military training so that they can when the neces sity arises, at least begin fight-

When we enquired about his decision about moving to a safer place,

Bangabandhu said, 'A leader cannot flee for his personal safety'.

ing the Pakistani forces on our people's behalf. The negotia tion with the neighbouring country however virtually failed but the incident showed Mujib's cagerness for the country's freedom. Tofael informed the Star.

Mujib was tactical enough to deal with things to achieve his objectives, Tofacl said, adding, Bangabandhu one day - on March 23 - went to have dialogue with Yahya Khan alone without any aide which he usually did carlier. "

A Commentary by Sabir Mustafa

Dhaka Radio broke its silence at 8 30 am on March 8. 1971 by broadcasting Bangabandhu Shetkh Muttbur Rahman's historic speech delivered the previous day to a massive gathering at the Race Course Ground.

The radio was supposed to have broadcast it live, but could not do so as the martial law authorities clamped a ban on it. In protest, all Bangalet members of staff walked off, and stayed off until they were able to carry out their promise to the people by transmitting

The movement in the street in support of Mujib's call for non-violent, civil disobedience received a major boost with the arrival in Dhaka of Maulana Abdul Hamid Khan Bhasani from Santosh in Tangail. The flery leader, whose po-

litical stature and popularity stood way above that enjoyed by the National Awams Party ho led, was scheduled to give a speech at the Paltan Maidan the next day. Tension in the city was al-

ready beginning to mount with the arrival in Dhaka the previous evening of Lt Gen Tikka Khan, better known as the Butcher of Baluchistan for his brutal suppression of the Baluchi people's struggle for freedom in 1965.

Tikka Khan replaced Lt Gen Shahibzada Yaqub Khan as governor and Lt Gen Amir Abdullah Khan Niazi was appointed deputy martial law administrator of East Pakistan.

Apparently, Yaqub Khan was removed for his "softness" in handling the crisis in East Pakistan. That softness included the killing of hundreds of unarmed Bangalees by the Pakistan army in the streets of Dhaka, Chittagong, Rangpur, Tongi, Rajshahi, Jessore and many other places.

The military authorities. however, tried to shift all the blame for the killings on to what they called "rioters".

In a statement issued to the press late in the night of March 7, the martial law ad ministrators said that 172 people had been killed and 358 injured in "riots", including 78 deaths in Chittagong alone.

The press note did not mention anything about the hundreds of people fighting for their lives at various hospitals including the Dhaka Medical College Hospital after being shot or bayonetted by troops and police. Despite the mounting brutality, Yaqub Khan was not considered tough enough, and the Butcher of Baluchistan was sent to carry out his speciality job to "save Pakistan."

Following Mujib's outline of the civil disobedience movement at the Race Course rally, and declaration that "the struggle this time is for our freedom, the struggle this time is for our independence." Activists of political parties

across the broad spectrum, save for the few fanatically pro Pakistani ones at the extreme right-wing who were

routed at ballot box three months ago, began organising their forces for the challenge ahead. Student wings of parties or-

ganised volunteer brigades, not only to keep up the momentum of the movement, but also to maintain peace and discipline in the city; women students took to the streets and would soon start getting paramilitary training, albeit with dummy weapons; and streets remained vibrant with the sound of a million footsteps and thundcrous slogans.

Political parties and social organisations which had not seen eye-to - eye to with the Awami League only a month ago, instantly responded to Bangabandhu's call and rallted behind him.

Mujib was no longer simply the president of the biggest political party in the country. but the true leader of the nation, the nucleus of the movement. And the movement, after a week of agitation, had become a national one.

That day he tried to pursue the Pakistant authority that the majority parties should at least be allowed to form the provincial government in all the five province of Pakistan," Tofaci continued.

"Mujib tried to pursue this idea keeping in his mind that once the Bengalis can form their own government in their own country, it would be easier than to compel the Pakistani ruling circle to handover central power," Tofael argued.

Mujib, before pursuing this idea, however did not forget to hotst the new flag of Bangladesh on the car that carried him to the venue of the bilateral negotiation on March 23. Tofacl remembered.

It can be mentioned that the new flag of Bangladesh was also hoisted at his Dhanmondi residence on the same day.

Recalling an interesting incident taking place at Mujib's residence on March 7, few hours before his historic address at Ramna Race Course Maidan, Tofacl said, "Strajul Alam Khan and I went to visit him in the morning and, when Strajul Alam insisted that Bangabandhu should declare independence in clear terms that afternoon, Mujib said, Being the people's leader, I can well read their minds. I know how to lead them and to what

Bangabandhu delivered his historic speech and virtually declared the independence of the country saying, the struggle this time is for our freedom, the struggle this time is for independence."

According to Tofael Ahmed,

he and Sheikh Fazlul Huq Mont

were the last two persons who met Mujib on the dreadful night of March 25 at 11 pm. "Bangabandhu handed over to mc an amount of Taka 5,000

and asked us to move to a safer shelter", Tofael told the Star in a choked votee. When we enquired about his

decision about moving to a safer place Bangabandhu said," leader can not fice for his personal safety. Tofacl recalled.

=Feature ==

Heat in the street. People buttle police near the Secretariat

Science and Technology

The Universe Within the

CCORDING to the big bang theory, the first after the birth of universe, matter and antimatter existed in equal amounts. And when the universe expanded and cooled, most of the particles found their corresponding antiparticles and the pair annthilated each other. So the universe was elegantly simple but virtually empty of matter and of creatures made up of that matter.

And at the very beginning the distinction between the four fundamental forces - nuclear strong force, nuclear weak force, gravitational force and electromagnetic force did not exist and all these forces were unified and had one single strength. So the forces were all symmetrical and equal at the creation.

The world symmetry is derived from the Greek Symmetrus, meaning regular, well proportioned or harmonious. When the universe cooled and the law of symmetry began to break, the four fundamental forces also separated from each other. First, gravity was distinguished from other forces, and then the strong, weak and electromagnetic forces became apparent as they froze out of the cooling universe manifesting breaking of the symmetry.

After the universe has cooled down and the symmetry broke down, in excess of about one billion protons and one billion electrons survived to form, in the fullness of time, galaxies, stars, planets and ourselves. Why then nature is very symmetrical as we see it and why is it asymmetrical when we observe it in a microscopic way? Again why this crack or flaw in nature lies at the centre of the riddle of our existence? Still partical physicists never get a very accurate answer to it. And it is still an unsolved and mysterious prob-

Uptil 1957, all the laws of nature were believed to be symmetrical. The laws of nature should be such that the happening in the mirror image should also be perfectly consistent with them.

Many ordinary objects around us possess what it called 'Handedness'. They are either right or left handed. Gloves and shoes are an examUniverse

by Shireen Bari

ple, even chemical molecules also can exhibit handedness. like the right-handed double helix of DNA that twists around like a spiral staircase to the right, this does not mean that life also defines a direction but life just has to use one or the other (left or right) and on this planet the right-handed choice

A looking glass in an object in which we see our images.

electromagnetism, the strong interaction (which are responsible for nuclear forces) and the weak interaction (which are responsible for certain kinds of nuclear decay) defines a screw sense. That is why the P mirror flooking glass and P stands for parity) was symmetrical, so that one could not distinguish between the results of a reflection among elementary particles and the result of the

And at the very beginning the distinction between the four fundamental forces - nuclear strong force, nuclear weak force, gravitational force and electromagnetic force - did not exist and all these forces were unified and had one single strength. So the forces were all symmetrical and equal at the cre-

We know that our right hand and left hand are opposite to each other. One can be considered the mirror image of the other. Again in mirror, the right hand looks like a left hand. So if all human hands were symmetrical in every respect, the mirror image would be different from the direct image and there would be no such distinction as 'right' and

And for that reason now some scientists think that Alice ("Alice in Wonderland," a beautiful story written by Charles Dodgson, where it is described how Alice had been lost in another world when she was in a dream) can provide a way of understanding symmetry laws in nature.

Now Alice can tell whether she is in the real world or in the looking glass world. She can be certain of her whereabouts only if she finds some fundamental process or structure that defines a screw direction. A right-hand screw at home will be a left-hand screw through the looking glass. Until 1956 scientists, specially particle physicists, thought that Alice must remain lost between the real world and the looking glass world. Because at that time it was generally believed that none of the fundamental forces as gravity.

mirror image of that reaction.

In 1957 two particle physicists Lee and Yangs showed that the P mirror could be asymmetrical with respect to the weak interaction. Further the experimental scientists worked on this theory and suggested that the weak interactions do define a screw direction, and nature discrimi nate between left-and righthandedness.

Scientists have shown a test for reflection symmetry in a looking glass, which is more formally called a P mirror.

Particle physicists have taken cobalt 60, an isotope of cobalt that decays by emitting electrons through the weak interaction, in a magnetic field generated by electron flowing counterclockwise around a circular wire loop. Here Alice can see that the field points downward and aligns with the spins, (rotation of a subatomic particles) of the cobalt nuclei downward. The emitted electrons travelled upwards.

But in a looking glass world, the electrons in the circular loop travel clockwise, and so the magnetic points upwards. The spins of the looking-glass nuclei align upwards and the emitted electrons travel downwards. Since the emitted electrons travel in opposite directions in the two worlds, the reflection is not perfect. Again matter about which we think that it is symmetri-

cal. But the change of matter into antimatter is not symmet rical as C mirror changes particles to antiparticles and antiparticles to particles but preserves the relative orientations of the objects it 'reflect'. [C stands for charge conjugation) Alice can now find out whether she has passed through the C mirror by determining either the direction of emission of the electrons emitted by her aligned cobalt nuclei or, alternatively, the direction of emission of the positrons (anti electron) emitted by her aligned anticobalt nuclie. Once again electrons traveling counterclockwise in a wire loop generate a magnetic field that points downwards and the cobalt nuclie align downwards and the electrons they emit move upwards. In the antiworld seen through the C mirror, positrons traveling in the wire loop also move counterclockwise, but (since the C mirror reverses charge) because they have a charge opposite to that of electrons, the magnetic field points upwards. The anticobalt nuclei have magnetic properties opposite to those of ordinary cobalt nuclei, and so their spins align downwards. Finally, the positrons emitted by the anticobalt nuclei travel in the direction of the nuclear spins, which in this case is down-

The fact that the emitted positrons travel in the direction opposite to that of the emitted electrons tells Alice she must have passed through the C mirror. As this experiment has shown that the C mirror changes the charge of positive and negative mesons and changes the neutral K meson into its antiparticle, the K negative meson. So weak interaction is responsible for breaking the symmetry of nature. Some scientists think that as symmetry breaks down due to weak interactions, perhaps it will break down elsewhere. The universe as a hole may be right handed or left handed or may be there are two universes - one left and the other right handed, and one composed of matter, the other with that antimatter. The universe within the uni-

Major Role for Australia in Global Research Project

Australian involvement in a little-know but dramatic global research project continues to shed new light on southern hemisphere weather patterns and knowledge of the earth's evolution.

Since 1985, 19 nations have cooperated in the Ocean Drilling Programme (ODP). which spends \$50 million at year to study the structure and history of the ocean floor by drilling the deepest holes ever made into the deep sea bed.

The Australian Research Council has announced continuing funding for Australian sediment.

Australia's coordinator on the premier international carth science research programme, Dr Tony Crawford, who runs Australia's ODP secretartat from the University of Tasmania, said the results from Australia's only two drilling legs to date show why marine geoscientists are so excited over the project. Both Australian legs, challenged conventional understanding of the earth's crust.

Unexpected Discovery

First there was the wholly unexpected discovery that the

oped as India drifted away from Australia."

At another level, there are resources implications because the creatures that build reefs are very often destined to turn into oil and such reefs are prime targets for oil explorers. The battle for "inner space"

does not get the publicity of the other space race, which looks forward to space stations and a possible Mars voyage.

There was little media coverage when JOIDES Resolution recently completed man's deepest penetration into the deep sea floor, 2000 metres termine if the continents themselves are rising or The ODP also inevitably offers spin-offs for applied science. While JOIDES scientists do everything they can to avoid formations that might contain commercial off, they do apply the latest oil-search

technology, including a forma-

tion microscanner inserted in

the drill hole to measure fac-

tors such as porosity, chemical

composition and fracture den-

equator by a centimetre or so

each year. Others will suggest

that it is difficult to be dog-

matic about rising or falling sca

levels when you must first de-

Apart from purely scientific discoveries, there also is the experience being gained in drilling in water more than 10 times deeper than oil explores.

"Australia now will be looking for a chance to explore further issues," Dr Crawford said. "A few examples : how fast does scal level rise and fall? Have there been previous Greenhouse periods? What controls apparent switching on and off of the important East Australian current? Can it be linked to El Nino phenomenon?

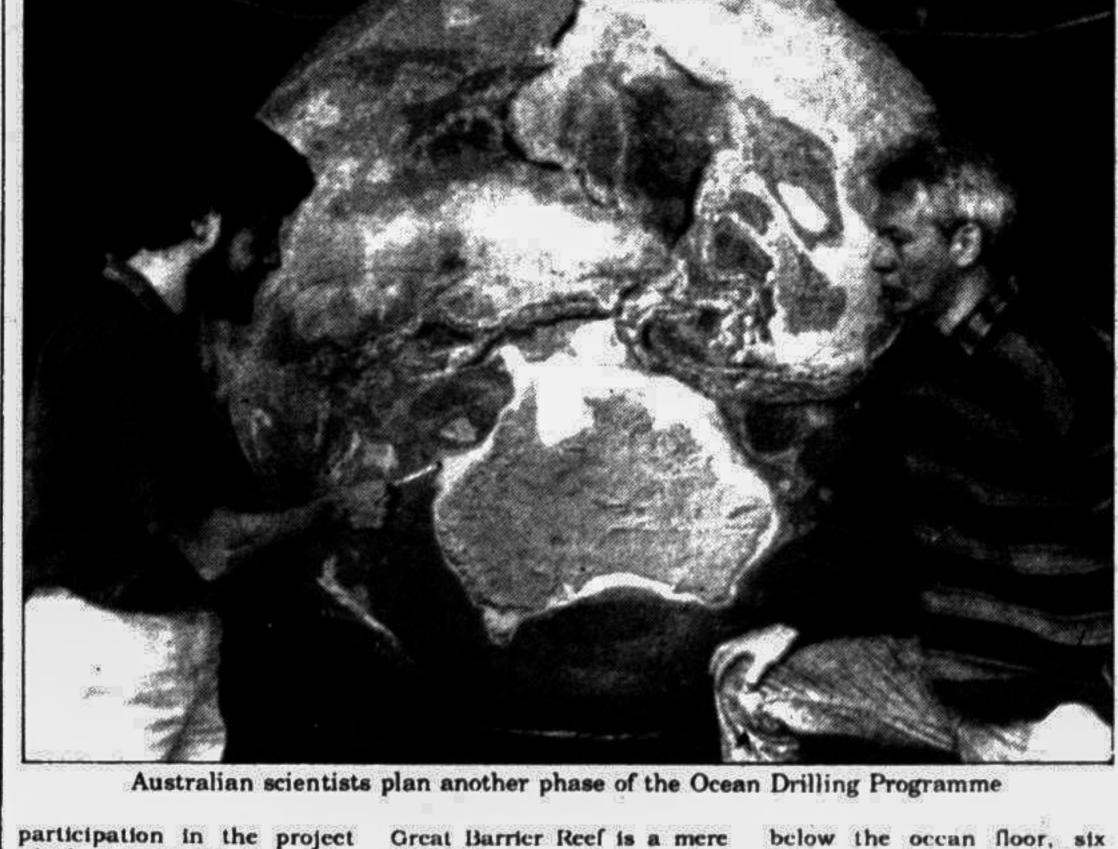
"To tackle such questions, the ODP scientists refine chemical techniques to analyses the core sediment. Take lorans, tiny shelled animals found in all oceans for around 100 million years.

Shell remains can give us water temperatures to within two or three degrees : salinity levels; measurements of atmospherie carbon dioxide, and other factors. By graphing changes down the drill hole, you might be able to show sea temperatures over 50 million years from a single site.

from the off-shore Queensland hole will let us measure elimate in 10-year steps for the last one million years. I believe this is the only world site able to offer such detail."

In Australia, the analyses

(Australian Science and Technology Newsletter)



participation in the project Great Barrier Reel is a mere which is devoted to the exploration of "inner space." Each of 22 Australian geo-

scientists from nine universities and the Bureau of Mineral Science has spent 60 days aboard drill ship and floating laboratory JOIDES (for Joint Oceanographic Institutions for Deep Earth Sampling) Resolution which recently completed 40 two-month cruises drilling holes yielding more than 80 km of cored rock and

500,000 years old instead of the textbook estimate of between five million and 10 million years," Dr Crawford said. "Then, on the opposite side

of the continent, not far from Australia's huge off-shore natural gas reserves on the Northwest Shelf, JOIDES Resolution drilled a Triassic reef where no Triassic reef had been known before. This forces us to reassess our theories about how this area devel-

kilometres below the drilling vessel. At one level, the ODP is pure science, which attracts

some of the world's brightest geoscientists to improve understanding of the forces which shaped the planet.

These are people with a long-term perspective : rescarchers who think, for example, of Australia as a mobile land mass, moving towards the