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Message from President's Desk:

Dear Members,

We had a long gap due to some unavoidable situation. Sorry for that!

This time we got a good chance to celebrate Environment Day at the newly acquired premises of Assam Technical University at Jalukbari. The Vice Chancellor Dr. P. K. Goswami, Academic Registrar Dr. Nripen Das and some of their staffs had extended their help in planting different saplings in their premises.

On 14th June, 2014, WEFA organized a Quiz Competition among school children (class VIII to XII) of greater Guwahati in memory of Late Phani Dhar Dutta, Ex Vice chancellor & Founder Registrar of Gauhati University. The Quiz was on Science and Technology and it was organized very nicely and smoothly by WEFA, as we got to know from feedbacks received.

After long waiting the people of Guwahati could see the face of rains, but it took a devastating turn for some parts of Guwahati. This I feel, is mainly because of the unplanned manner Guwahati is developing and also due to depletion of water bodies because of encroachment, illegal construction as also failure of the state authorities. The drains are not proper; some houses are constructed in low lying areas. If there had been proper drainage system and natural reservoirs not disturbed, then rain water would have flown to low level by itself without creating artificial flood. Many people died because of this artificial flood and land slide from the heavy rains that occurred on 26th June night in Guwahati. May their souls rest in eternal peace! Hope very soon some solutions will come! WEFA members are welcome to offer their suggestions.

Long live WEFA!

Mrs. R. Rajkhowa.

President of WEFA.



Secretary's Report:

WEFA celebrated THE WORLD ENVIRONMENT DAY by planting saplings of flowers and fruits in the newly constructed premises of University of Science and Technology at Jalukbari on 5th June 2014. President Er. Rita Rajkhowa led the team of WEFA in this plantation programme along with Er. Nayan Bhandari Sharma, Vice President, Er. Labanya Padmapati Baruah, Treasurer, and other executive members namely Er. Rekha Majumdar, Dr. Bibha Das, Er. Mridula Das, Er. Geetimala Baishya, Dr. Mrinalini Das including undersigned. Vice Chancellor of the University Dr. Pradyut Kr. Goswami, Academic Registrar Sri Nripen Das and the teachers and staff of the new University wholeheartedly participated in the said programme. The programme was a grand success.



WEFA also organised “Phani Dhar Dutta Memorial Quiz Competition” in memory of Late Phani Dhar Dutta who was a Professor of Mathematics in Cotton College and Vice Chancellor of Gauhati University. Late Dutta was also a founder Professor of J.B. College, Jorhat. WEFA is pleased to mention here that our president Er. Rita Rajkhowa and daughter of Late Phani Dhar Dutta extended all help including most of its financial need to make this Quiz Competition a success. The said Quiz competition was organised by WEFA in the Auditorium hall of the Institution of Engineers, Panbazar on 14.06.2014 amongst school students (class VIII to class XII) of Greater Guwahati. 54 students of 10 schools comprising 27 teams of Greater Guwahati participated in this competition. The quiz competition was conducted by Sri Maharnav Gogoi on the theme “Science & Technology” and following students came on top which are as follows:

Best team

A) Sudarshan Goswami
B) Priyambada Datta
Shrimanta Shankar Academy, Dispur,
Guwahati,
Rs. 7000/-, a shield & a certificate.

1st Runner-up

A) Arnab Das
B) Rishabh Gogoi
Maharshi Vidya Mandir, Borsajai,
Guwahati,
Rs. 5000/- and a certificate.

2nd Runner-up

A) Anurag Baruah
B) Padmanav Baruah
Maria's Public School, Birkuchi,
Guwahati, Rs. 3000/- and a certificate.



Besides, above 4th, 5th & 6th placed teams were presented with a pen set to each one of them and all the participants in the competition were presented with a book to encourage such participation and reading habit. Prizes were distributed by President of the Forum Er. Rita Rajkhowa.

WEFA continued with its objective of encouraging and helping meritorious economically weak girl students by

announcing one-time financial assistance to two students of Chandrapur High School namely Sima Kalita and Joba Das presently studying in class X and class IX respectively. They were selected on the basis of their performance in the last annual examination of their school and their economical background.

The Forum also decided to arrange a series of talks on Technological innovations starting with the 5th Foundation Day of WEFA in October, 2014.

I seize this opportunity to thank all the members of WEFA for their continual support to the programmes conducted by the Forum and hope this Forum will stand test of time and emerge to be a strong force to help the poor and downtrodden girl students by spreading the light of education.

Ms. Indira Das
Secretary, WEFA

Khagen Mahanta's death condoled:

WEFA members expressed deep sorrow and sense of loss over the death of music maestro Khagen Mahanta on 12th June, 2014. With his death an era has come to an end creating a void that would never be filled up. Mahanta was instrumental in taking folk music of Assam to glorious heights and delighted generations of music lovers with his golden voice. We all pray to God for eternal peace of the departed soul.

WEFA Editorial:

International women's day is celebrated all over the world every year on 8th March. It celebrates womanhood and pays tribute to the indomitable spirit of woman across the globe honors women's advancement and reminds of inequalities still to be redressed. The root of the women's day lies in the early 1900, when oppression and inequality was spurring women to become vocal and active in campaigning for change. In order to strengthen their unity, socialist party of America organized 1st National Women's day across the U.S.A on 28th February, 1909. It was more or less a political event. Clara Zetkin from Germany, leader of Socialist party floated the idea of International Women's Day (IWD) celebration. In 1913, IWD was transferred to 8th March- a global day for woman. In different countries, the focus of the celebrations ranges from general celebration of respect, appreciation and love towards woman to celebration for women's economic, political and social achievements.

During the celebration, a global network of rich & diverse activity connects women all around the world ranging from political rallies, business conferences, government activities and local women's events. As women are the major part of the society and plays a great role in the economic political and social activities, IWD is commemorated to remember and appreciate women's all over the world for their achievements.

This event of celebration plays a great role in distributing the real message about the women's right & their place in the society. It promotes the living condition of women by solving their social issues.

International women's day is recognized by United Nations and official holiday for women in 27 countries like Afghanistan, Armenia, Cambodia, China, Cuba, Nepal etc. In 2013, although the theme of International Women's Day was 'Promise is a promise. Time for action to end violence against women,' But in reality there is much to be done to curb physical and mental torture with women. At this stage can we say oppression & crime against women are reducing as per the information available from news paper? Further, it is regrettable to find that women are also increasingly involved in crimes. Therefore a social network is urgently necessary to bring back these women towards right direction.

This year.2014, theme of IWD is "Equality for Women is progress for all." should be a treated as a promise to make people feel everyday as International Women's Day. (The editorial note has been prepared considering its relevance in the activities of WEFA and women empowerment.)

Ms. Bibha Das Saikia,

Editor

Women for Rural Development:

Food and Agriculture Organization has reported that rural women are responsible for half of the world's food production. They produce 60–80 percent of the food in most developing countries. They are also the main producers of the world's staple crops—rice, wheat and maize—which provide up to 90 percent of the rural poor's food intake.

As such, women are fundamental for guaranteeing food security and household maintenance, not only for their own families but also for the community in general and constitute a strong potential foundation for rural development. Yet many rural women are illiterate and lack the knowledge to take advantage of investment and development opportunities.

Women's efforts to initiate or expand income-generating activities are typically constrained by limited access to credit and other financial services, such as savings and deposits. Despite recent efforts to increase rural women's participation in financial markets (for example, via microcredit programs), women are still disproportionately credit constrained and unbanked.

Therefore, efforts are needed to increase literacy, improvement of quality education, facility for knowledge transfer, supporting finance etc among women. Then only issue of empowering rural women will be successful (Global Economic Symposium, Kiyel, Germany).

Physics behind Football Game:

Football game is related to study of **motion and its causes**. The broad

categories of motion as they apply to the game of football are –

- Delivery of a football through the air i.e. flight of the ball
- Runners on the field i.e. the motion of the player
- Stopping runners on the field i.e. force of the tackles

A football travels through the air, following a curved or parabolic path due to force of gravity. When a player kicks a football, he can control three factors:

- The velocity or speed at which the ball leaves his foot
- The angle of the kick
- The rotation of the football

The rotation of the ball -- spiral or end-over-end -- will influence how the ball slows down in flight, because the ball is affected by air drag. A spiraling kick will have less air drag, will not slow down as much and will be able to stay in the air longer and go farther than an end-over-end kick. The velocity of the ball and the angle of the kick are the major factors that determine

- How long the ball will remain in the air (hang-time)
- How high the ball will go
- How far the ball will go

When the ball leaves the player's foot, it is moving with a given **velocity** (speed plus angle of direction) depending upon

the **force** with which he kicks the ball. The ball moves in two directions, horizontally and vertically. Because the ball was launched at an angle, the velocity is divided into two pieces: a horizontal component and a vertical component. How fast the ball goes in the horizontal direction and how fast the ball goes in the vertical direction depend upon the angle of the kick. If the ball is kicked at a steep angle, then it will have more velocity in the vertical direction than in the horizontal direction -- the ball will go high, have a long hang-time, but travel a short distance. But if the ball is kicked at a shallow angle,

it will have more velocity in the horizontal direction than in the vertical direction -- the ball will not go very high, will have a short hang-time, but will travel a far distance. The player must decide on the best angle in view of his field position. These same factors influence a pass or field goal. However, a field goal kicker has a more difficult job because the ball often reaches its peak height before it reaches the uprights. (Ref .How Physics of football works, Freudenrich Creig, a freelance Science Writer, U.S.A.)

Quotes:

“Women hold up half the sky.” — Chinese proverb

"No one can make you feel inferior without your consent." — Eleanor Roosevelt
