



AARW NEWSLETTER

A quarterly publication of Anjamma Agi Reddy Engineering College for Women, Hyderabad

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From the Principal's Desk

Now I wish to present 'the tilt'. When we are buying some thing by weight, we will not buy if the 'moggu' or tilt of the balance is on the weight side. We will not buy even when both the fruit and weight exactly balance. We will always expect the vendor to give us the benefit of tilt on the fruit side. I visited a shoe mart looking for shoes small with small holes punched on the toe side to let in a little air. The salesman did his job by saying that such shoes were not stocked by him. But he went a step further and informed that I could get these in another shop across the road. In other words, he gave me the benefit of 'tilt'. A friend of mine who is a design engineer gives *options* to his customer instead of submitting just one design as per contract. He is available for consultation after the expiry of the contract as well. Let each one of us give our own organization the benefit of the tilt, while rendering our service. Sell one against salary and give one free to the institution. Nothing is a waste. Every skill, every talent and every experience will certainly come in handy some time or other. Only an event filled life is a fulfilled life. Not every one has the wonderful opportunity to serve. If every teacher gives the benefit of the tilt to the student and the college, the student will view the college as a provider of an exhilarating educational experience instead of as a commercial business.

Five news items interested me: [1] UK doctor of Pakistani origin, Viqar Qurashi makes cheap light weight artificial legs from PVC drain pipes for amputees from quake victims and refugees who can not afford more exotic materials. For his noble project, he received assistance from his Indian counterparts who make the Jaipur foot. [2] BRICS is a newly formed economic forum consisting of Brazil, Russia, India, China and South Africa who wish to cooperate outside the dollar domain. [3] Every year, more than one lakh students go to the US from India. About a fifth of them are sent back to India for reasons such as accepting employment and for plagiarism in dissertations. [4] Dr. M Lakshmi Kantam has been appointed as Director, Indian Institute of Chemical Technology, Hyderabad. She is the first woman director in the history of CSIR with 37 laboratories. [5] The 24 karat Iron lady Margaret Thatcher passed away.

- Dr. Palanki Balakrishna

In this issue

We list top rankers in February 2013 Midterm examinations and Winners in competitions. We have photographs from Republic Day and *Rangoli*. This year is the 150th birth anniversary of Swami Vivekananda. Shahreen gives an account of the celebration along with some of the Swami's quotations. Hashmat Sultana recollects what the Swami said on teaching and learning. Naga Chandrika reminds us of the power of words. March 8 being Women's Day, views of students are presented along with the photograph of the participants. Then we present the lady who manufactured telephone wires 130 years ago. The last but not the least item is *From Far and near*. Sprinkling a little sugar can heal wounds. In AP, villagers feed waste from beer factory to cattle and get more milk. Indian farmers have produced record quantities without pesticides and chemicals. Fuel is being made from plastic waste. Hollow plastic spheres are incorporated into concrete, reducing weight without losing strength. Finally, we do have an alternative to antibiotics at a time when most bacteria have become immune.

Toppers in I B.Tech II Mid Examinations (February 2013)

EEE: I K Bhavani Priyanka, II G Shailaja

ECE: I Anu P Suresh, II G Pallavi, III V Pavani

CSE: I Ameena Kauser, II B Meena, III Vasa Preeti

Toppers in II B.Tech II Semester I Mid Examinations (February 2013)

EEE: I P Akhila, II M Nagamani, III S Sushmitha

ECE: I P Sai Prasanna Kumari, II Syeda Fatima Zohra, III D Manisree

CSE: I D Vaishnavi Goud, II Preethi Lal, III Kruttika Sutrave

Toppers in III B.Tech II Semester I Mid Examinations (February 2013)

EEE: I B Soundarya, II N Jamuna, T Ashwini Devi, III N Manjula, S.Anuradha

ECE: I G Mamatha, II Hashmath Sultana, III P Shruthi Mowdgalya

CSE: I G Swetha Reddy, II P Mounika, P Pratyusha, III Y Uma

Ms. Akhila, the nightingale of AARW won FIRST prize in solo singing at Inter collegiate music competition at Vignan Institute of Technology and Science, Deshmukhi (23.01.2013)

Hat trick by our girls at Inter collegiate competitions at ISLW Engineering College (15.03.2013)!

N Shaheena Tanveer, B Srilakshmi, P Pratyusha all III CSE won FIRST prize in Debate

T Sanjana Reddy III CSE won the FIRST prize in “Code debugging”

B Mahalakshmi III CSE won the FIRST prize in “Back to School” Games



Principal delivered guest lecture of 3 hours on the *Theory and Practice of Environmental Degradation of Materials* at the University of South Florida, Tampa USA on 20.03.2013

Prize Winners in Republic Day Competitions 2013 at AARW

Debating	Essay Writing	Rangoli	Mehendi	Pencil Sketch
I Prize Hashmat Sultana III ECE Swetha Reddy III CSE Kruthika II CSE Esther II CSE Syed Meraj Unnisa I CSE Ameena Kausar I CSE	I Prize Pothnak Mounika III CSE	I Prize Gadham Mamatha, III ECE Akula Akhila, III ECE Bobbala Pravalika, III ECE Ravula Anusha, III ECE	I Prize Nahid Sadiya, III CSE	I Prize G. Revathi, I ECE
II Prize Femida Bano III ECE Pratyusha III CSE Soujanya III CSE Kavya III CSE Ravalika I CSE Shaila Rani II CSE	II Prize Syeda Fatima Zohra, II ECE	II Prize Pothnak Mounika, III CSE Galwa Swetha Reddy, III CSE T. Sanjana Reddy, III CSE Yacharam Uma, III CSE	II Prize Hashmath Sultana, III ECE A. Sneha, II CSE	II Prize M. Bhagya Sree, I ECE
	III Prize Ch. Mounica, I ECE	III Prize T. Ashwini Devi, III EEE C. Priyanka, III EEE S. Anuradha, III EEE Afroz Aziz, III EEE		
Consolation Prizes in Essay Writing				
Hashmath Sultana, III ECE, Fehmida Bano, III ECE, G Swetha Reddy, III CSE, P Sai Prasanna, II ECE Kruttika Sutrave, II CSE, B Esther, II CSE, P Jeevana Shravani, II CSE, G Shaila Rani, II CSE, Ravalika Mangapati I CSE, V Soundarya, I ECE				

“Live as if you were to die tomorrow. Learn as if you were to live forever” – Mahatma Gandhi (1869-1948)

“You educate a man; you educate a man. You educate a woman; you educate a generation” - Brigham Young (1801-1877)

Editor's choice from Rangoli competition



**Navatha, Soujanya, Bhagya Sree, Swathi
(I B Tech ECE)**



**G Revathi, M Ravalika, Ch. Mounika
(I B Tech ECE)**



**V Bhargavi, V Bhavana, P Revathi,
Yekameshwari (II B Tech CSE)**



**S Kokila, D Vaishnavi, C Priyanka, K Manasa
(II B Tech CSE)**



**P Navya Sree, P Pratyusha, K Rintu Joseph, Bn
Jyothsna (III B Tech CSE)**



**S Anuradha, C Priyanka, Afroz Aziz, T Ashwini
Devi (III B Tech EEE)**

Celebration of 150th Birth Anniversary of Swami Vivekananda

The youth festival at Ramakrishna Math, Hyderabad on 8.1.2013 was aimed at igniting young minds and bring out their strengths to create a powerful better India. Our college has the distinction of having sent the largest contingent of student participants out of all the colleges in twin cities. Dr. T G K Murthy, retired Outstanding Scientist of the Indian Space Research Organisation and Mrs. Shailaja Rama Iyer IAS addressed the gathering. They stressed that:

- Man is the maker of his destiny. Luck favours the hard working person.
- Make knowledge your goal, not pleasure. Pleasure comes to an end, knowledge does not.
- Education is not the collection of information. It is the training of the mind and body that strengthens will power.

They said that the teachings of the Swami are available as quotations a few of which are listed below:

1. All power is within you. You can do anything and everything. Believe in that. Do not believe that you are weak; stand up and express the divinity within you.
2. Be a hero. Always say, "I have no fear."
3. Like the silkworm you have built a cocoon around yourself.... Burst your own cocoon and come out as the beautiful butterfly, as the free soul. Then alone you will see Truth.
4. A few sincere, and energetic men and women can do more in a year than a mob in a century.
5. Take up one idea. Make that one idea your life - think of it, dream of it, live on idea. Let the brain, muscles, nerves, every part of your body, be full of that idea, and just leave every other idea alone. This is the way to success
6. Work on with the intrepidity of a lion but at the same time with the tenderness of a flower.
7. Appreciation or no appreciation, sleep not, slacken not
8. If I am unhappy, it has been of my own making, And that very thing shows that I can be happy if I will.
9. Be not disheartened. When good nectar is unattainable, it is no reason why we should eat poison.
10. That which is selfish is immoral and that which is unselfish is moral.
11. The world is neither good nor evil; each man makes a world for himself. When it keeps us warm we say, "How Beautiful is fire!" When it burns our fingers, we blame it.
12. Do not go through the world like a man pursued by a policeman seeing the barest glimpses of the beauty of it.
13. Religion is the idea which is raising the brute unto man, and man unto God.
14. That country and that nation which do not respect women have never become great, nor will ever be in future.

- Shahareen (III B.Tech ECE)

Editor's choice from Mehendi competition

	
<p>Art: K Manasa (II B Tech CSE) Volunteer: A Srilakshmi, Asst. Prof CSE</p>	<p>Art: G Shaileja (I B Tech EEE) Volunteer: M Bhagya Sree (I B Tech ECE)</p>
	
<p>Art: Nahid Sadia (III B Tech CSE) Volunteer: Minu Mohan (III B Tech CSE)</p>	<p>Art: A. Sneha (II B Tech CSE) Volunteer: Sreeja (II B Tech CSE)</p>

Inspiring Teachers

Swami Kamalananda and Swami Satyapriyananda of the Ramakrishna Mission have made available in book form what Swami Vivekananda (1863-1902) had said on teachers and students.

The preceptor is the initial form; the disciple is the final form. The connection between them is of the form of Knowledge and this connection is forged by means of instruction.

Teaching is not for barter, where the teacher gives the student some knowledge, in exchange for which he receives money. If such a crude contract exists, the teacher will regard the student only as a means of earning a livelihood, and teaching will just be a job. The student will have no respect for the teacher. It is important to instruct no doubt, but what is far more important is to inspire. A teacher should be able to communicate the joy and excitement of learning something new. There are several cases of students who have decided to study a particular subject, or specialize in it because the person who taught the subject could convey to his student some of the excitement and life of subject itself.

Qualifications of a teacher

The teacher firstly must have the spirit of a true student. Then after learning his subject matter with devotion, sincerity and dedication, the teacher should instill in his students the same devotion and dedication. Without strength of character in the teacher, one cannot expect strength of character in the student. The teacher teaches out of a fullness of heart. 'May others benefit from what ever I know, may others act as the repository of the knowledge I have' is the attitude of such teachers. The teacher's attitude is therefore entirely positive and compassionate. The student should be encouraged to tap his own potential and go beyond. A good teacher, of his own free will, shoulders the responsibility of his students. The question of blaming others for their poor performance does not arise. If the teacher has done his best, his commitment is fulfilled. By merely doing a job, one can get money, but if teaching is done in the true spirit, one gains some thing infinitely more valuable, namely the gratitude of the student. Education is the process by which character is formed, strength of mind is increased and intellect is sharpened, as a result of which one can stand on one's own feet. Education has to reach every one, high and low, because individuals are the very constituents of the society. As for the students, the message is clear – Make a whole hearted effort to be physically fit and mentally alert. Arise, awake and stop not till the goal is reached.

– Hashmath Sultana (III B.Tech ECE)



**Assistant Professors
Pallavi, Pavitra, Aparna and Lavanya in
Republic Day Mode**



Volunteers ready for action on Republic Day



**Secretary, Mahaveer Educational Society Sri Surender Reddy garu, lighting the Lamp
and hoisting the National Flag**





A section of the students listening to inspiring words from Secretary



Chairman's message provokes thought



Physical Director Jehangir listing athletic achievements of students



**P Sai Prasanna Kumari II B Tech ECE
First Rank, Mid Exam**

The power of words

Mohini insulted her neighbour. Realizing her mistake, she went to the teacher to ask for forgiveness. The teacher told her to take a bag of feathers and drop them in the center of town. Mohini did as she was told. Then the teacher asked her to go and collect the feathers and put them back in the bag. Mohini tried but couldn't as the feathers had all blown away. When she returned with the empty bag, teacher said, "The same thing is true about your words. You dropped them rather easily but you cannot retrieve them, so be very careful in choosing your words."

- collected by B Naga Chandrika, Office Assistant



Preeti Lal, First ranker II B Tech CSE receives prize from Sri Sudershan Reddy garu, Chairman, Mahaveer Educational Society



Minu Mohan, First Ranker in Mid Exam receives prize from Sri Surender Reddy garu, Secretary, Mahaveer Educational Society



B. Esther II B Tech CSE First Rank, Mid Exam



P Akhila II B Tech EEE, First Rank, Mid Exam



**G Pallavi I B Tech ECE,
First Rank in Mid Exam**



**M Bhagya Sree I B Tech ECE,
Second prize Pencil sketch**



G Revathi I ECE, First prize Pencil Sketch



A Sneha II CSE Second prize, Mehendi



Ankit Arora and Srilakshmi have just planted and watered a pomegranate plant to come back after some years and distribute fruit

Student Views from Women's Day seminar

Women's Day must be celebrated every year to draw attention to women's issues.

Every year we celebrate Women's Day, and do nothing further, we forget until the next year. We want the status of women to be enhanced and womanhood celebrated every day in word and deed. Every day should be Women's Day.

Ours is a society that traditionally respected women. Women goddesses are worshipped. Then why this U turn in the treatment of women? The media is full of news of horrors against women.

When a baby girl is born, they say that *Maha Lakshmi* entered. Will the day come when we can say that Durga has entered?

Do not beg for help. Demand what is due. Do not leave things to men. Take things into your hands and get involved.

If a girl faces teasing or harassment at college, why do parents stop her education? Why don't they take the erring boys to task? Do not take away the girl's already limited liberty.

Do not give up your job, your life and your future for the sake of some one else, however close he or she may be to you. Live your life and assert yourself. No one will be thankful to you for your sacrifice.

Why do only men rush to help an accident victim? Why don't women do their bit?

Gender equity should begin at home. Let my father treat my mother in a better way and let my mother treat our servant maid in a better way. Women should help women.

Dowry harassment and female feticide should be deterred by severe punishment.

Women can do a lot by their dress and behaviour to command respect, but my dress is certainly not a yes.

Women must increase their awareness of what is happening elsewhere – they must glance through newspapers, magazines, browse the net and attend meetings or get-togethers.

Women's Forums must be formed and kept going at work place, professional bodies and in residential areas.

The media continues to portray women as persecuted daughter in law or monstrous mother in law. Why not show them as scientists, poets, bank officials, doctors and agents of change?

The film hero is setting a bad example to the nation's youth in eve teasing, thereby celebrating sexual harassment and villainy. This must stop. The hero should be Dr. Jekyll only and not with a tint of Mr. Hyde.

Women have reservation in rural bodies and in educational institutions. It should be extended to representation on company boards and trusts.

Why Barbie dolls for girls and toy aero plane for boys? Parents ought to change their attitude.

Both men and women should have equal share of parental property. Girls should not be sent to Telugu medium schools to save money while boys are sent to expensive English medium schools.

Women have taken up jobs, but most men are yet to share housewife jobs. Men should support women in balancing family needs and work needs. Men should give up smoking and drinking and give the money for family upbringing.

For women to reach the top, the glass ceiling has somewhat thinned down, but they still have to push a bit more and fight a bit more to reach the top.

They have to be less emotional and more practical. Risk and benefit go together.

Women have to stop being self-limiting (I can not do this, I can not do that – it is a man's job) and overcome diffidence. You do not have to give up femininity to be an engineer or a company chairperson.

Similar to Technology Mission, there must be a Women's Mission as a Government initiative to tap women's potential for the progress of the country. The National Commission for Women is not visible to most women in the country. Working Women's hostels, baby crèches and staggered or flexible working hours should be made mandatory in the corporate sector. The opportunities available to old men should be extended to old women

Women should not wait for government initiatives for their welfare. Every woman can certainly do some thing, for example, she can begin with her maid servant by helping her out and by remaining united in the class room.

Freedom can be taken to have dawned only when a woman can walk fearlessly at midnight in the street.



III B Tech Participants in Women's Day Seminar

Front Row, from left: Bn. Jyothsna CSE, K Rintu Joseph CSE, P Pratyusha CSE, Ch. Mounika CSE, B Sharada CSE, D Soumya EEE, T. Ashwini Devi EEE

Back Row, from right: Hashmat Sultana ECE, S Shwetha Reddy CSE, Fehmida Bano ECE, M Lakshmi ECE, M Jyothi ECE, N Divya Shree ECE, N Priyanka ECE, Shahreen ECE, Nahid Sadia CSE



Hanna Hammarstrom (1829 – 1909), was a Swedish inventor and industrialist. She was the first person in Sweden to produce telephone wires commercially. She manufactured the wires for the first Swedish telephone network. She also exported wire to Finland. She was the daughter of a cotton and silk merchant. Her father wished for all his children to learn a profession, so she learned to manufacture various forms or ornaments. Though telephone wires were invented before her, the way to make them was not known in Sweden, so the Swedish telephone network depended on foreign manufacturers. Hammarstrom managed to develop telephone wires by herself with the knowledge she acquired by making ornaments out of metal strings. She started her own factory and in 1883 took over the task of providing telephone wires to the Swedish telephone company. In her factory in Stockholm, she employed only women, whom she educated herself. In 1886, she was awarded first prize for her invention at a machinery exhibition in Stockholm.



**Principal
Dr. Palanki
Balakrishna
with his team
inseparable**

From left:

**Y Naga Lavanya,
B Naga Chandrika,
D Vasudha,
Mamatha,
Ratna Deepika,
Syamala Devi
Satya Lata
A Aparna
A Vasavi
V Lakshmi Savitri**



**Principal
Dr. Palanki
Balakrishna
with his team
invincible**

From left:

**P Nooka Raju
V Appalakonda
T Siva Prasad
K Veeranjanyulu,
V Seshasaina
Reddy
K Mallesh
Kiran Karunakar**

From Far and Near

Sugar heals wounds!

While excessive consumption of sugar is bad for the body, when applied externally, it appears to be healing wounds faster than antibiotics. At the University of Wolverhampton, sugar is being used to heal wounds and bed sores. Thirty five patients have shown promising results, so a systematic study has been undertaken to determine the effectiveness of sugar treatment.

Nutrition from waste!

Illiterate self help group women from Fasalvadi (Medak) have found a novel way of increasing the milk yield of cattle by feeding them 'spent malt' which is left over waste material of a private beer manufacturing unit. It is available at about ₹ 1 per kilogram. The increase in milk yield is one litre per animal per day with improved fat content.

More rice per hectare without chemicals!

In the past, the 'father of rice', the Chinese scientist Yuan Longping achieved a record rice production of 19.4 tons per hectare. Now farmers in Darveshpura, Bihar have achieved an astonishing 22.4 tons per hectare. Instead of planting three week old rice seedlings in clumps of three or four in water logged fields, as rice farmers around the world traditionally do, the Darveshpura farmers carefully nurture only half as many seeds, and then transplant the young plants into fields, one by one, when much younger. Additionally, they space them at 25 cm intervals in a grid pattern, keep the soil much drier and carefully weed around the plants to allow air to their roots. This is a timely development when food has to be provided for an ever increasing population. Called 'System of Root Intensification', it has dramatically increased yields with wheat, potatoes, sugar cane, yams, tomatoes, garlic and many other crops.

Fuel from plastic

From Srinagar to Kanyakumari, one feature common to every part of India (and the world) is the plastic waste strewn around. Only about 7% of plastic waste is being recycled. Part of the rest goes into land fills and part goes into the oceans. Air and ocean currents form a huge, slow moving spiral of debris mostly plastic accumulated from all corners of the globe through decades. Unlike biological material, plastic does not biodegrade and decompose. Instead, it shatters infinitely into smaller and smaller pieces without actually chemically breaking down. The tiny plastic bits are mistaken as food by sea creatures which poses a threat to the entire food chain. Hence efforts are being made on commercial scale to convert plastic into fuel. In one method, dense plastic nuggets are co fired with coal. In another method, through depolymerisation by catalytic pyrolysis, waste plastics are converted into liquid hydrocarbons, coke and gas, which can then be used as boiler fuel for power generation.

Light but strong

Building with concrete damages the environment, because in manufacturing concrete -more precisely, in burning the limestone necessary to produce the Portland cement that holds it together - large amounts of the greenhouse gas CO₂ are released. That's why Swiss experts have now developed a process with which the carbon footprint of concrete buildings can be reduced. They incorporate large hollow plastic spheres into the concrete and save a third on building material. The resulting walls and ceilings remain stable. The idea is modelled on the bones of birds, which have a hard shell and hollow interior with struts to stabilize them.

Alternative to antibiotics

Antibiotics like penicillin have saved millions of lives since their discovery. However, bacteria evolve much faster than any other creatures and have become resistant to antibiotics, thanks to their indiscriminate use. No new antibiotics have been discovered in the past three decades and nothing is in the pipeline. Several deadly strikes by bacteria may occur any moment. However, there is a ray of hope. There are several viruses that are harmless to humans but deadly to harmful bacteria. Russian doctors have been using phage therapy. Phages are viruses that attack bacteria. The disease causing bacteria in a patient are identified in a sample from the patient. Then the killer virus from cold storage is administered to the patient. The method, which has shown no side effects, has been popular in Russia and is now attracting world wide attention.

- compiled by Dr. Palanki Balakrishna

“Be kind, for everyone you meet is fighting a harder battle.” – Plato (429-347 BC)

“Every time you smile at someone, it is an action of love, a gift to that person, a beautiful thing.” – Mother Teresa (1910-1997)

***“Kind words can be short and easy to speak, but their echoes are truly endless.”
– Mother Teresa (1910-1997)***

***“Kindness is a language which the deaf can hear and the blind can see”
- Mark Twain (1835-1910)***

“Tenderness and kindness are not signs of weakness and despair, but manifestations of strength and resolution” - Kahlil Gibran (1883-1930)

“We think too much and feel too little. More than machinery, we need humanity. More than cleverness, we need kindness and gentleness” - Charlie Chaplin (1889-1977)

“There is overwhelming evidence that the higher the level of self-esteem, the more likely one will be to treat others with respect, kindness, and generosity” - Nathaniel Branden (b.1930)

***“The task of the modern educator is not to cut down jungles, but to irrigate deserts”
- C.S. Lewis (1898-1963)***

“I am not a teacher, but an awakener” – Robert Frost (1874-1963)

Mahaveer Educational Society

Chairman: Sri. S. Sudershan Reddy garu, Secretary: Sri. S Surender Reddy garu.

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