



# AARW NEWSLETTER

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

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## **From the Principal's Desk**

This newsletter proudly celebrates one year of successful publication with generous support from the Management of Mahaveer Educational Society. It serves as a platform for the students and staff to voice their views and to present in a nutshell the news and developments at the college and elsewhere. The reading habit among students has been coming down over the years, due to the increasing distraction by television and mobile devices in addition to conventional cinema. Reading not only widens one's breadth and depth of knowledge, but also prevents dementia later in life. The most successful people in the world are also those who have made use of every minute of their life in fruitful activity including reading, writing, listening and speaking. I will be happy if all my students glance through the newsletter, newspapers and magazines in our library and also the quotation written every morning in addition to seriously reading text books and reference books.

For the New Year, let us resolve to make use of every moment at our disposal in useful work, be it studies or household work. All of you are familiar with Einstein's famous equation  $E = mc^2$  which gives the relationship between mass and energy. In a modification of the formula, 'E' is the energy of the individual, one 'c' is the competence and another 'c' is the commitment. 'm' is fraction of the moments utilized every day. We measure time in moments and not in hours, since every moment is precious and lost moments cannot be recovered again. I also wish to impress on you the dignity of labour. We should never hesitate to do a job, even if it is manual work. Every job is important and we should not feel that it is below our dignity to undertake the job.

In this issue, as usual, the toppers and winners are listed. We have an inspiring article from Shaneena Tanveer. Esther tells us how to overcome fear. Preeti Lal is all admiration for teachers. We have photographs of events. Gist from the speech of a distinguished visitor follows. Then we present a golden pot from a HR Consultant. Ankit Arora highlights friendship. Finally we have some developments from science, technology and medicine. Wish you a happy and healthy new year!

- Dr. Palanki Balakrishna

### **Top 10 in pencil sketch competition**

A pencil sketch competition was held for I B.Tech students on 7.12.2011. Every student had to participate instead of just volunteers. The time allotted was only 30 minutes. The artist could choose any theme for the sketch. The criteria for selection of the top ten were artistic value, concept value and the extent of labour. All sketches were very good and it was very difficult to select. The top ten artists are presented here:



From the left:

Preethi Lal CSE (A serene village and a concrete jungle), A. Sneha CSE (School Girl), G. Shaila Rani CSE (Don't cut trees), Wajiha Neha CSE (Nature), V Bhavana CSE (The Taj Mahal), Mani Sree ECE (Serve Nature and Nature will serve you), K Rohini EEE (Mother Nature), K Manasa CSE (Keep drugs and pollution away), P Jeevana Shravani CSE (Peaceful village), V Bhargavi CSE (For life to change, change your life) (not in picture)

### **Toppers in II B.Tech I Semester I Mid Examinations (Sept 2011)**

ECE: I Hasmath Sultana, I Femida Bano, II G Mamatha, III Chanda Parimala

CSE: I G. Swetha Reddy, II P Mounika, III Ankitha Arora

EEE: I Sravya Kulkarni, II B Soundarya, II N Jamuna, III Afroz Aziz

### **Toppers in II B.Tech I Semester II Mid Examinations (Dec 2011)**

ECE: I Hashmath Sultana, II Fehmida Bano, III G Mamatha

CSE: I G Swetha Reddy, II P Mounika, III K Shireesha, Minu Mohan, S Parvathi

EEE: I Sravya Kulkarni, II B Soundarya, III Afroz Aziz

### **Toppers in I B.Tech I Mid Examinations (Nov 2011)**

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

**CSE:** I Preethi Lal, II D Vaishnavi Goud, III P Revathi, Wajiha Neha

**EEE:** I S Sushmitha, II M Nagamani, III D Anusha

### **Let us all move ahead with inspiration!**

In spite of great economic advances, India is still labeled as a “developing country” and not a “developed country”. It is my view that you and I can change the status of our country for the better. You may ask, “How do we do it?”

First of all, we must all be thankful to God that we live in a free democratic and peaceful and progressive country. So we all have several rights. But what we tend to forget is that we also have several responsibilities. We have been blessed with an opportunity that most others in the country do not have. This is the opportunity to study in an engineering college, with scholarship from the Government, low cost bus passes and stay in social welfare hostels for the needy. We must question ourselves whether we are doing anything in return for the great help we have been receiving. The *mantra* is to exert to the best of our ability in whatever we are doing. Abdul Kalam came from a humble background. He studied under street lights as his parents could not afford a lamp in the house. He rose to become a great scientist and President of India. This proves that our circumstances do not limit our progress if we move ahead with inspiration and determination. Swami Vivekananda said, “Arise, awake and stop not till the goal is reached”. A person known to me is not well to do. She discontinued her studies and took up a small job to supplement the meager income of her father. The father was moved by her sacrifice. Initially he was happy that his daughter understood his poverty and trying to help him out. But he felt that she should not lose her opportunity to study and become an engineer. So he convinced her to join back in her college and obtained a loan for her education. She utilized the chance well. She made use of every minute in studying and maintained good health by correct food and exercise. After passing out, she got a job and repaid the educational loan taken by her father.

- Shaheena Tanveer, II B.Tech CSE

### **Don't be afraid**

Everyone is afraid of something or the other in life. Life begins with fear. The day starts with fear. No one can say that one is fearless at all times. Some are afraid of living. Some are afraid of some one. Some fear getting into problems. Some fear failure in examinations. Some fear their studies. Some are afraid of future. Strangely, some are even afraid of success! Oh! There are ‘n’ number of fears in each one’s life. But to be successful in life and career, we have to get rid of our fears.

Surely, there is a way out. To overcome fear, a baby clings to its mother. A student seeks guidance from her teacher. The young benefit from the expertise of the old. The follower looks to his leader for protection and support. But remember, the ultimate parent, the ultimate teacher and the ultimate expert is God. Eashwara, the Almighty, is also *Bhaya Hara*, the destroyer of Fear. So trust in God completely. We can be free from fear when our living God is with us. We are children of living God. Our trust, our hope and our faith is in our living God. I am no longer afraid of anything because God lives in my heart.

- B Esther, I B.Tech CSE

### **An ode to teachers**

Have we ever thought about how much our teachers do for us students? When a student gets good marks, she may feel that it is her own effort that brought the good marks. We feel that if we graduated it is because of our own work and our own struggle. But it is not true. A part of the struggle is played by the teachers also. When a student gets low marks or fails, she may feel that the teacher is not good. This is not fair. There will always be differences among teachers as among students. Some teachers are superb. Some may not be that great. But every teacher puts in a lot of effort towards students. The teacher prepares for the lecture before hand, collects interesting information from different books and internet and give their best to the students. If we ask for 1000 times also, they will try to clarify more and more. In addition to subject knowledge, the teachers tell us manners, discipline, useful things in life, language improvement, personality development, speaking skills and other things. Suppose a student is educated but he/she doesn't have the discipline, politeness in order to talk to their elders or superiors at work place, it is waste of his /her education. The students should have both discipline and education.

When students scores good marks, teachers feel as if their own children had achieved it. They encourage the students who study well to develop more and more. They support and help the students who find difficulty in studying and understanding. If a student doesn't answer properly and doesn't score good marks, they feel that it is their responsibility to improve his/her education skills. They improve student's communication skills. They do not show partiality. They always think about how best to educate the students. The teachers don't expect anything from the students. They do a lot of things for the students. So it is our responsibility to respect them, and not to behave with a rude manner. If a teacher scolds us, we should not get angry because the teacher does so for the welfare of the students. The teachers are given a place equal to that of the god in our society (Acharya Devo Bhava). God does not expect anything from us, He always gives us. In the same manner the teachers also do not expect anything from us. All students come and let us take an oath that we will respect our teachers, talk to them in a polite manner. As a student this is the only thing that we can give them in return for their support for us.

- Preethi Lal, I B.Tech CSE



## Wedding Bells

- [1] Madhusudan Reddy, Assistant Professor BSH weds Uma Devi on 16.10.2011
- [2] Prabhakar, Assistant Professor ECE weds Jyothi on 19.12.2011
- [3] Agnihotri, daughter of Sri Sudershan Reddy, Chairman, Mahaveer Educational Society weds Ajay Reddy on 13.11.2012



**Ajay Reddy tied the knot with Agnihotri,  
Daughter of Chairman, Mahaveer Educational Society on 13.11.2011**

## The Story of Abraham Lincoln

Failed in business 1831  
Defeated for Legislature 1832  
Failed in business 1833  
Sweet heart died 1835  
Defeated for Land Officer 1840  
Defeated for Congress 1843  
Defeated for Senate 1855  
Defeated for Vice President 1856  
Defeated for Senate 1858  
Elected President! 1860

- collected by P Nooka Raju, Asst. Professor (Maths)



**Sri Sudershan Reddy, Chairman, Mahaveer Educational Society, receiving memento at the 47<sup>th</sup> AP State Table Tennis Championship Games 29 Nov-2 Dec 2011**



**Sri Surender Reddy, Secretary, Mahaveer Educational Society, awarding prizes at the 47<sup>th</sup> AP State Table Tennis Championship Games 29 Nov-2 Dec 2011**





**Dr. Palanki Balakrishna, Principal distributing prizes to Table Tennis winners**



**Flanked by Principal MIST, Principal AARW and faculty members, Secretary Shri Surender Reddy addressing the New Year gathering**



**Cutting the New Year Cake**



**Rejoice, rejoice, and rejoice!**





**Kruttika Sutrave and Syeda Fatima Zohra**  
Able anchors for new year festivities



**Welcome dance by A Sneha**



**An inspiring song from P Sai Prasanna**



**Lavanya - Balancing grace with gaiety**



**Lavanya, Bhavana, Nirmala, Revathi,**  
**Together we win!**



**Neeha Priyanka team**  
**Bubbling energy with synergy!**

## Faculty achievements

Three of our faculty members appeared for and passed the Faculty Eligibility test conducted by JNTUH:

Mrs. **Lakshmi Savitri Vatsalya**, Assistant Professor (Engg. Physics)

Mrs. **K Ratna Deepika**, Assistant Professor (English)

Mr. **B Karunakar Rao**, Assistant Professor (EEE)

Mrs. **Madhu Bala**, HOD delivered guest lecture, “*Image Processing and Data Mining Applications*” at Sri Visveswaraya Institute of Technology and Science, Mahaboob Nagar on 8.8.2011

Dr. **Palanki Balakrishna**, Principal was Guest Faculty at BARC Postgraduate Training School at NFC Hyderabad in the subject *Nuclear Fuel Cycle* in October 2011. He also delivered three guest lectures and conducted case studies session at the Engineering Staff College of India, Hyderabad in their Professional Development Programme on *Recent Advances in Corrosion and Surface Engineering* 28-30, December 2011.

**Mr. Ravikanth (ex IAS) Managing Director, Ramky Envirotech visited Mahaveer Campus on 20.12.2011 and addressed students. Some of the points made by him are given here:**

[1] Horse has to make effort to drink water. No amount of dragging will help. Water will not automatically enter its mouth. Similarly, students have to put in their own efforts instead of banking only on the faculty and college.

[2] Vision is my view of what I should be. Vision leads to strategy which will guide plan and action. The name of the College does not matter in respect of your future. How you make use of the college matters. Staff are creating potential in you. It is for you to translate the potential into meaningful action. There are two types of people, both with 100% potential. In one case, all the 100% potential is translated into action, in the other case, only a portion is realized as action.

Performance = Potential – interference

If the interference can be reduced, the performance goes up. Interferences are weak areas, bad health, mind not being peaceful, worry like “When I become old who will look after me?”, shyness, inferiority complex, lack of language command, no listening skills, lack of focus, inability to learn or unlearn and relearn, poor time management, space management, disorganized life and schedules.

[3] First try to attain Good. Then think of being the Best. Attitude towards life, whether you view the glass as being half full or as being half empty determines your fate.

[4] Etiquette and grooming, relationships are important for success. How to deal with bosses, colleagues, juniors, public, dealing with self have to be learned. Respect yourself first. Be proud that you exist. Winners do not curse darkness. Success and failure will come and go. Failure should never go to the heart. Success should never go to the head. Always be humble in life, as the fruit laden tree that bends.

[5] No one can go back in time and change a bad beginning. But anyone can start now and create a successful ending.

[6] You smile and Life smiles at you. You laugh and the world laughs with you. You cry and the world will laugh louder at you. Do not shed tears over a missed opportunity as the tears would hide another waiting opportunity.

[7] Secret of success – Plan your work and work your plan. Knowledge is not enough, education is required. Rote learning is useless in career and in life. Skill comes through practice. Experience cannot come in the class room. It comes in real life. Skill, knowledge, experience lead to wisdom. Then you are a manager. Values are important for individuals as well as for organizations. Values influence our attitude and behavior. Vision is your view of what you want to become in life.

### **The Golden Pot**

Unable to bear his poverty, a priest went to the temple and begged the deity for a solution. That night the deity left a golden pot in the courtyard of the priest's house. The priest found the golden pot with some water in it. He threw the water out and went to the market, where he sold the pot to a merchant. With the money he received, he repaid all his debts and returned home a rich man laden with gifts for his family. However, soon after, his family fought over the vast wealth, everyone from his wife to his children to his parents and his siblings demanding their share.

Unable to bear the mental agony, the priest went back to the temple and complained to the deity. "You have added to my problem and not solved it with the golden pot". The deity said, "Golden pot? What golden pot? I gave you the elixir of contentment, enough for you and your family. It happened to be contained in a golden pot. Did you not drink it?"

Every job is a golden container full of elixir. The pot is the salary that pays our bills and the designation that pleases our desire to feel significant. But in each job is potentially the opportunity to grow intellectually and emotionally. Each job contains the seed of learning that can germinate in our mind, if we allow it to. Unfortunately, jobs are seen more in economic terms (the pot) than in learning terms (the elixir).

- Ramya Bharadwaj, HR Consultant, Northern Operating Services Pvt. Ltd.



### ***On Friendship***

A network of friends serves the same purpose as a backbone to the body. Without a backbone, our structure is distorted. Without friends, we can not identify our strengths and talents. People say that parents are best friend to a child. But we may hide a few things from parents. There are feelings we can not share with them. We can share with some people only and these are our friends, whether boys or girls, young or old.

We come across many people who become our friends for different reasons. Some pretend and back stab, some stay for profit. But some others stay with us without expecting any thing in return and help us in several situations. They can understand our feelings even when we do not express them. Such are real friends.

We learn many things from each friend we get in our long journey of life. Some things may be good and some may be bad, but we learn several lessons of life from them. Some times we can not help fights with best buddies, and decide not to talk with them, but soon we forget and retrieve the friendship. Misunderstandings may occur, but the spirit between friends is that of forgive and forget. A true friend understands our silence, and heartbeats and makes us smile when sad, cry when we cry and laugh when we laugh. There are occasions when longtime times friends depart and we can not find them again, but the sweet memories remain.

- Ankita Arora, II B.Tech CSE

### ***From Far and Near***

#### ***Mirror treatment for phantom limbs!***

Some people lose their hands or legs in accidents. A phantom limb is the sensation that an amputated or missing limb is still attached to the body and is moving appropriately with other body parts. Two out of three combat veterans report this feeling. The majority of the sensations are painful. The pain can be made worse by stress, anxiety and weather changes. V S Ramachandran has fabricated a mirror box and used it successfully for pain relief from phantom limbs. A mirror is placed vertically in the centre of a wooden or cardboard box whose top and front surfaces have been removed. The patient places his normal hand on one side and looks into the mirror. This creates the illusion that the amputated hand has returned and the pain disappears.

#### ***Now a Trojan to fight cancer!***

The Greeks destroyed the kingdom of Troy by using a wooden Trojan horse with soldiers hidden inside. You are familiar with several Trojan viruses that can infect computers and networks with devastating results. Trojan medicines are capsule or sugar coated to mask bitterness. Now a Trojan is handy for treating cancer. The radioactive element Lutetium 177 is used because its destructive effects can be limited to the tumour itself. The surrounding tissue is largely

unaffected. One can target the therapy very precisely. Healthy areas can be preserved. The treatment is suitable only for neuro endocrine tumours, that is, tumours that are made up of cells that produce hormones. These are found in Digestive system, thyroid glands, lungs and the brain. Planting a substance in the tumour. Tumour cells have receptors that absorb Protein molecules from the surrounding medium. Radioactive Lutetium is able to penetrate the cancer cells. 2 to 3 times higher than conventional chemotherapy and side effects are much less. Lu 177 is attached to the protein molecules. It is able to penetrate the cancer cells and destroy them from within,

### ***What is my age?***

It is not gentlemanly to ask a woman her age, an employee his salary and a student's EAMCET rank. But *Chronological* age is required for admissions, recruitment and retirement. However, our *biological* age may differ appreciably from our chronological age depending on our genes and life style. The widening gap between chronological and biological age has placed increased pension burden on the Government. We also have an intellectual age depending on our maturity, experience, attitude and outlook. Biological age is the physical and mental condition of your body and mind. How fit your brain is determines your biological age. Every single of the billion cells age. The aging may speed up with the aid of tobacco, alcohol and drugs. Aging is not a disease, but the way we age decides the quality of our life. Cardio muscular cells. Joints gradually wear out and bones become more brittle. Reaction times slow down. Being physically active is the starting point. Diet is as important as exercise. Endurance exercises. Kidney and liver do not really age. The aging of brain can be slowed down by training but cannot be prevented.

### ***Is there life elsewhere?***

The diameter of the universe has been estimated to be 78 billion light years. A light year is the distance travelled by light in one year. Planets going round other stars than the Sun are called exoplanets. 3000 exoplanets have been found so far. In this vast universe, are there earth like planets where there may be life? Water is required to sustain life as we know it. When a planet is too far from its sun, the temperature will be too low for liquid water to be present. If the planet is too near, water will boil away. In between the two extremes, there is a habitable zone (known as Goldilocks Zone) where the temperature on the planet is right for liquid water to be present. At a distance of 600 light years from the earth, such a planet has been discovered. It has been named Kepler 22 B. Its radius is two and a half times that of the earth. It takes 292 days to round its sun. Scientists are now looking for biomarkers such as Oxygen, methane which are indicators of the possibility of life.

### ***Innovate or perish!***

While the diameter of the earth remains constant, the human population has been increasing in geometric progression. Providing food to everyone is a major challenge. Hybrid varieties and genetically modified foods have helped to some extent. Research is being done in other

directions. One idea is to have farming at various levels, just as people are now living in multi storied buildings. Another idea is to have a farm on every roof top. Several people grow their vegetables on their roof tops. At present, food is being transported over hundreds or thousands of kilometers, contributing to green house gases. There is also loss of food in transportation and storage. Locally available food will be cheaper. From independent dwellings, we have changed to apartments. In future, the accommodation will be of the type railway three tier sleeper coach.

### ***Pot in pot cooling system!***

A rupee saved is a rupee earned. A unit of energy saved is a unit generated. Food preserved is food produced. As the world population increases, the demand for food also goes up. A slight lowering of the temperature of food results in its shelf life going up significantly as bacterial activity slows down. A good amount of food is going waste as most of the people cannot afford a refrigerator. A pot in pot refrigerator, that does not require electricity, has become popular in Nigeria. Vegetables, fruits or drinks are preserved in the inner pot. Wet sand is maintained between the inner and outer part. The pots are covered with a damp cloth. The latent heat required for evaporation of water from the large surface area of the unglazed porous pots causes a drop in temperature and cools the food in the inner pot. Water in the sand is replenished from time to time.

### ***Cell with man-made program self replicates!***

Synthetic biology involves the engineering of cells by removing or introducing genes. Now at Nottingham University, man made DNA has been introduced into a functioning cell that is self replicating. The genome was written in a computer and then put in a bacterium. It is the cellular equivalent of an operating system. Computer models are used to accurately predict the behavior of programmed cells. Possible applications in the near future include creating bacteria which would gobble up harmful CO<sub>2</sub> or deliver precisely controlled medicines inside our bodies.

- Compiled by Dr. Palanki Balakrishna

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### **Mahaveer Educational Society**

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***Committed to Education, Emancipation and Empowerment of Women***