

VOLUME-III



रासज्ञान

Wings of CHEM Knowledge



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We have turned three and are proud to say that you are holding the third edition in your hands. We invite you to feast your eyes and warm your soul with this edition. As tradition goes, each year the magazine is created by a group of bright and diligent students.

It never ceases to amaze us as how many options the youth have today to choose from and out of which many of them choose the difficult ones. We really admire the students who have a clear vision and are working hard to give their best to become who they want to be. This comes naturally to some and not so naturally to others. Every student has their own struggle, some bigger and harder than the others. But what matters is that how the students inspire us with their experiences.

We would like to thank our faculty advisor B. Pradeep Santosh Kumar sir without whom this magazine would cease to exist.

B.Tech. Life

**Stunning
Odyssey**

Music

**Sketch
Zone**

**Cost of
Hunger**

**Gene from
past**

**Soul
Satisfied**

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Department

Profile

Chemflare

Race

Chandrayan

Team Indus

**Alumini
Byte**

**Comfy
Letter**

**Still
Counting**

DEPARTMENTAL PROFILE OF CHEMICAL ENGINEERING

The Department of Chemical Engineering was started in the year 2012 with a UG programme in Chemical Engineering (60 intake). The Department boasts of a very efficient team of faculty with 6 Ph.D.s and 6 M.E. / M. Tech.s from premier institutions like IISc, IITs, BITS-Pilani and Andhra University. The faculty participates actively in state of the art research and continuously thrives to update knowledge and skills. The department is sanctioned with a UGC major research project worth of Rs. 12.39 lakhs and had completed consultancy project worth of Rs. 0.30 lakhs. The faculty members have expertise in core Chemical Engineering and inter-disciplinary research in the areas of Computational Biology, Bio-process Engineering, Bio-Fuels, Photo-Catalytic Degradation, Chemical Reaction Engineering, Membrane Technology and Industrial Pollution Control. The department has well equipped laboratories and equipment for inter disciplinary research in the fields of Bio-technology and Nano-technology. The major equipment are UV spectrometer, Bio- reactor, laminar air flow chamber, autoclave and the fermenter.

The students of Chemical Engineering are placed across various IT industries like Infosys, IBM, Mu Sigma and Ux Reactor and in core industries like Torrecid, Ocean India, Divis laboratories, Teejay India Pvt. Ltd., NCL and Deccan Fine Chemicals Pvt. Ltd. etc.. Students to their credit have won many prizes in curricular, co-curricular and extra-curricular activities conducted at various IITs, NITs and reputed institutes across the country. Students are also encouraged to study further for their PG and Research in India and abroad. RACE (Rays of ANITS Chemical Engineers) the student body of the Department of Chemical Engineering organizes a two-day National level Tech fest named "CHEMFLARE-2020" to exhibit their technical and non-technical talents. Team work among students is encouraged to inculcate positive work habits and passion to work wisely, creatively and effectively. RACE body recognizes its social responsibility by providing essential utilities and donations to an orphanage named "4 THE PEOPLE".



Dr. Ch. Anil (HOD, Chemical Engineering)

Faculty Profile

Prof. S. Subba Rao: Major research interests include Bio-chemical engineering, Mineral processing engineering and Chemical reaction engineering. Worked on industrial fermentation for producing Citric acid, Glutamic acid, Immobilization of enzymes and whole cells, Reactive distillation and Grinding studies. Successfully completed a UGC Major Research Project entitled “Optimization of production parameters, extraction and characterization of a medicinally important drug Violacein by solid state fermentation”.

Prof. V.Sri Devi: Major research interests are Bio-Technology, Optimization of Bio-Processes. Currently working on isolation of novel micro organisms from various sources and their utilization to produce value added products.

Prof. R.Srikanth: Major research interests are Membrane Separation, Modelling & Simulation and Optimization. Currently working in the areas of modelling & environment. Worked on AICTE MODROB project “Development of analysis of oriented chemistry laboratory”. Published 15 research papers in national and international journals. Member of Board of studies for JNTU Anantapur and CUTM.

Dr. Ch.Anil, Associate Professor & Head: Major research interests are in process modeling, simulation, optimization and control. Currently working on microbial fuel cells and desalination techniques to promote socio-environment technologies. Published various research articles related to Proportional Integral and Derivative controller settings for Jacketed Continuous Stirred Tank Reactor, Level controlling system in distillation column, Boiler steam drum, Paper drum dryer cans, Surge tanks and Bioreactors.

Dr. M. Shiva Naresh, Associate Professor: Major research interests are in Theoretical Biology, Experimental Design of Bioprocesses and Synthesis of Nano Materials. Currently working on photo catalytic degradation of pathogens and heavy metals present in contaminated drinking water using nano TiO_2 catalyst. Published research papers on protein- protein interaction of HIV and immune T-cells and optimization of process parameters of fermentation process. Completed consultancy project on anticorrosive paints to M/s Anantha Coatings, Hyderabad. Other research areas of interest include studies in downstream processing and biofuels.

Mr.D.Guru Mahesh, Assistant professor: Major research interests are Fermentation, Molecular Biology, Bio-chemistry, Biology, Human values, Bio-informatics, Molecular Docking. Successfully completed a UGC Major Research Project entitled “Optimization of production parameters, extraction and characterization of a medicinally important drug Violacein by solid state fermentation”. Published various research papers related to optimization of fermentation medium for the production of ethanol from jaggery using Box-Behnken design.

Ms. P. Mallika Rani, Assistant Professor: Major research interests are in battery technology, fuel cell technology. Currently working on insitu carbon coating techniques on LFP cathode.

Ms. S. Harika, Assistant Professor: Major research interests are in battery technology, water treatment techniques. Currently working on phase change materials for LIPO cells.

Dr. K. China Malakondaiah, Assistant Professor: Major research interests are electro-chemical techniques for ceramic and composite membrane fabrication for water purification. Presently working on bacteria removal from synthetic solutions using low cost laboratory fabricated ceramic membranes.

Mr. M. Koteswara Rao, Assistant Professor: Major research interests are in process modeling, simulation, optimization and control. Currently working on Proportional Integral and Derivative controller for MIMO systems.

Dr. Anjali Dasari, Assistant Professor: Major research interests are study of hydrodynamics of viscous oil water flow through various pipe networks, CFD simulations and water treatment techniques. Currently working on bio-sorption to treat pharmaceutical waste water.

Mr. B. Pradeep Santosh Kumar, Assistant Professor: Major research areas of interest include Chemical Looping Combustion, Under Coal Gasification (UCG) and Synthesis of Effective Adsorbents. Currently working on photo-catalytic degradation of heavy metals and pathogens present in contaminated drinking water using provokisites.



RACE

(Rays of ANITS Chemical Engineers)

Rays of ANITS Chemical Engineers or shortly known as RACE is a student association of the Department of Chemical Engineering which has been successfully empowering students since 2015 by providing a platform to improve and display their curricular, co-curricular, social and extra-curricular skills both educationally and recreationally. The main objective of RACE is to plan and take lead in various activities and events that enhances the students' will power and instill confidence in them to overcome their fears and face new challenges in the society.

The RACE association is guided by the department's esteemed faculty members who put all their effort and time in guiding the members of the RACE body to make the events successful. From the time of its birth the RACE body has conducted various national student conferences, interactive sessions with eminent personalities and various activities which bring out the inner talents of the students.

The following are the various activities conducted by the RACE during the academic year 2019-20.

INDUCTION PROGRAMME: The first year students need to be more comfortable and actively interact with other students by overcoming their ambiguities, so the RACE body has conducted a one week interacting session with the first year students as a part of the fresher's event. The members of the RACE have conducted various activities like group discussions, debates and situation responding challenges so that the students would overcome their fears in expressing their thoughts and be in par with the others.



TEACHER'S DAY: Teachers are the personalities who never get tired when it comes to the helping of the students in any way possible. Apart from the teaching, they guide the students all the time and help them in any way possible. So on the eve of teacher's day, the RACE body has honored all the teachers by conducting activities and interact them with students to promote healthy student-teacher relationship.



GANESH CHATURTHI: Ganesh Chaturthi is one of the most vibrant festivals celebrated across the country where many Ganesh idols are prepared for worship. The RACE body set up collaboration with an NGO in putting up a stall to sell eco-friendly Ganesh idols and the proceedings earned through the event are donated to a charity.



YOUTH INTO HOMELESSNESS: We spend our days working hard and we take rest in our homes at ease and prepare ourselves to make another day brighter. This is possible because we are blessed with a home to reside. But there are so many other people without homes wandering about the nights, searching for a place to sleep and get rest. This is a major issue which is least acknowledged. So RACE body conducted group discussions, debates and paint crafts on this issue and the proceedings from the participation are given to the NGO which helped the homeless people. Students from various departments actively participated in this event.



4 THE PEOPLE: The RACE body collected funds from students and faculty and visited the “4 the people” organization along with some students where the orphan children are given meals. The students interacted with the children by teaching classes, conducting games and other activities like singing and dancing. The children were filled with joy and the students enjoyed every moment with them.



RACE Body Members



Chandrayan -1 is the moon. It weighs 1380 kg which 5 are from India and USA, Germany etc., on October 22nd 2008, centre. This mission was Minister Atal Bihari Vajpayee. to find water on the north polar This mission was carried out by the fourth country in the world to hoist its flag on lunar surface on 14th November 2008. This mission had cost around 386 crores. After almost a year due to some technical issues Chandrayan-1 was lost on August 29th, 2009. ISRO officially declared that the mission was over. Despite the mission's failure it won three awards.

India's first mission to with 11 payloads out of remaining are from UK, This mission was launched from Satish Dhavan space commenced by former Prime The mission's main aim was region of the moon's surface. PSLV-C11. India emerged as

Failures are the stepping stones of success and ISRO almost succeeded. They came up with new project for moon's mission consisting advanced technology of Chandrayan-1 and named it as Chandrayan-2 weighing 3850kg. The mission was commenced by former Prime Minister Manmohan Singh. This mission's cost is 970 crores. Chandrayan-2 was carried by GSLV mark 2. The mission consists of 14 payloads out of which 13 are from India and 1 from NASA, it aimed at 5 goals and was all set to launch on 14th July 2019 but due to some technical issues launch date was postponed. After some modifications all set to go on 22nd July 2019 and Chandrayan-2 was successfully launched. In this mission there are 2 parts Lander-Vikram and Rover-Pragyan. Vikram was designed to function one lunar day which is equivalent to 14 earth days and Rover which has 6 wheels and it can travel up to 500 meters and collect information. After 50th day of launch, Lander and Orbitor separated and now all were waiting for the land of Chandrayan-2 Vikram –Lander in the South Polar Region.

On September 7 at 1:40 pm it was all set to land. The Lander was 30km far from moon and was 15 minutes to land. Those 15 minutes are crucial as stated by ISRO chairman, Dr. Sivan. The Lander travelled at 6120 km/h and during those 15 minutes ISRO needed to decrease the speed to 7 km/h. They decreased the speed from 6120 km/h to 500 km/h and then Vikram Lander was above 7.4km and then speed was decreased to 331 km/h and then Lander was above 7km and now all to do was to decrease the speed from 331 to 7 km/h. Speed was decreased to 216 km/h. The height was 2.1km and during then suddenly communication was lost with the Lander. ISRO stated that it must have been a hard land. Following the event NASA also helped to find the Lander. They spotted parts of lander in photos taken by their mission. Now ISRO is planning Chandrayan-3. We hope this mission will be successful.

-Gundu Hemanth(IV/IV, B.Tech.)

BEING ~~HUMAN~~ WOMEN

Her gender

Yeah, she is a girl

From the country,

Where she is killed in the WOMB just to get a son.

Where 14 years is perfectly ripe for her to be a WIFE.

Where PINK defines her.

Where the murmur of "GO HOME" is in the air.

Where her glorious soul and face becomes the reason for the PAIN she has to embrace.

Yes, SHE lives in a country,

Where the length of her SKIRT is a measure of her consent.

Where the colour on her lips define her CHARACTER.

Where YOU step out of your home and find corpses of little dolls strewn in the garden.

Where SHE can't be lady like, intelligent, politically conscious or respectable.

Where HER body really have to do with what she is.

How dreadful it is for all the DAUGHTERS of this nation to be a part of this country!!!

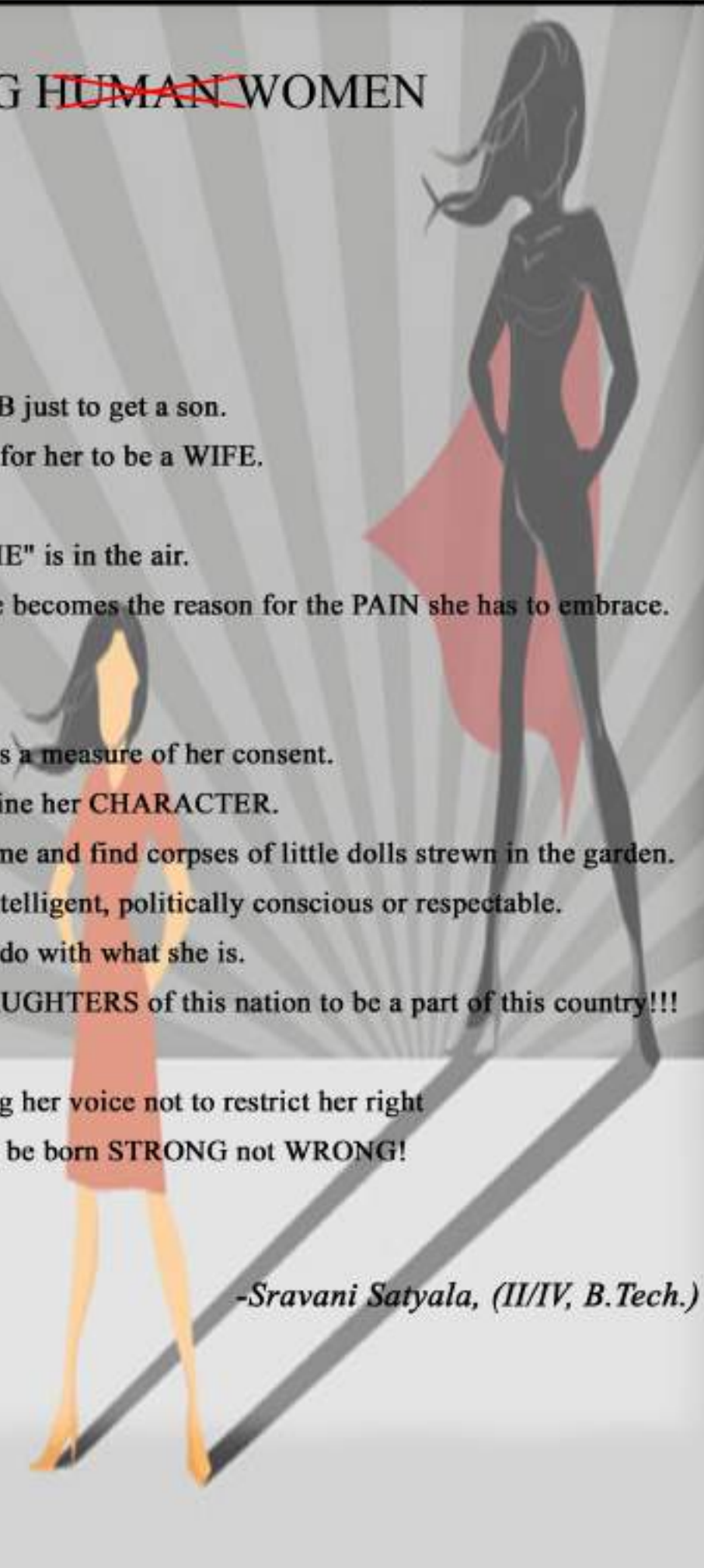
But, despite of all this,

SHE stands up full height, raising her voice not to restrict her right

Just because SHE sees herself to be born STRONG not WRONG!



-Sravani Satyala, (II/IV, B.Tech.)



A LOVELY REACTION

Dear Aurum,

I feel like there was a vortex formed in my heart, wherever I see your 1000 volts smile
The moment I see you blush; my heart reaches its saturation pressure and starts evaporating

With those hot eyes when you look at me, I melt like Himalayan glacier and also like a volatile hexane turning into vapors.

Whenever you go past me, my heart vapours diffuse near you, only you can condense me with a cool touch.

Your absence makes me a rock crystalline and your catalytic presence will make me work faster and more efficiently like a centrifugal pump.

You walk like mercury as shiny, stunning, smooth, and yet no traces left behind. I follow you like sodium searching for chlorine.

Whenever I see you, talking with any other guy my heart beat raises the discharge pressure and hence the laminar flow of my blood turns turbulent and gushes through veins.

I feel like putting him into a jaw crusher and break all his bones.

Haah...!! I had realized without you there is no reaction in my life. I want to be sodium and ready to give an electron, please accept my electrons like chlorine so that we can be together like salt

Without salt there is no taste in life.

-Dilip kumar. S(III/IV, B.Tech.)



CRISTIANO RONALDO

Cristiano Ronaldo, in full Cristiano Ronaldo Dos Santos Aveiro, was born on Feb 5, 1985 in Funchal, Madeira, Portugal. He is a soccer player forward who was one of the greatest players of his generation. He was awarded Golden Ball in the years 2008,-13,-14,-16 and 2017. He was also awarded European Golden Shoe in the year 2008.

Ronaldo's father, Jose Dinis aveiro, was the equipment manager for the local club Andorinha. The name Ronaldo was added to his name in honor of his father's favorite movie actor Ronaldo Reagan who was the U.S President at the time of Cristiano's birth. At age 15 Ronaldo was diagnosed with a heart condition the necessitated surgery but he was side lined only briefly and made a full recovery. He first played for Clube Desportivo Nacional of Maderia and then transferred to sporting Clube De Portugal known as sporting Lisbon where he played for the club's various youth teams before making his debut on sporting's first team in 2002.

A tall player at 6'1" Ronaldo was a formidable athlete on the pitch. Originally a right-winger, he developed into a forward with a free reined attacking style. He was able to mesmerize opponents with a height of foot that made sufficient space for opening in opposing defenses.

He was an instant sensation and soon came to be regarded as one of the best forwards in the game. His finest season with united came in 2007-08, when he scored 42 league and cup goals and earned the golden shore awards Europe's leading scorer with 31 league goals. After helping united to champion's league title in May 2008, Ronaldo captured federation international football association (FIFA) world player of the year honors for his play in 2007-08. He was a key player in Portugal's 4th place finish at the 2006 world cup and became the full time captain of the national team in 2008. In 2012 his stellar play led Portugal to semifinals of the European championship where his team was eliminated by rival Spain in a match that was decided by a penalty kick shoot out. Ronaldo came in to the 2014 world cup hot off of his second world player of the year win, but his play at the tournament was spotty, and the entire Portugal team struggled during a group stage elimination in 2016 he helped Portugal won the European championship, the county first major international tournaments title, although he only played sparingly in final because of a knee injury that he had sustained early in the match Ronaldo played brilliantly at the 2018 world cup, saving four goals in four games as Portugal advanced knockout round only to lose its first match of that stage to a strong defensive Uruguay side.

His extreme popularity made Ronaldo one of the highest paid endorsers his sports history and in november 2016 he became the third person after basket ball super stars Michael Jordan and Lebord James to earn a "LIFE-TIME".

-B.Meenakshi, (IV/IV, B.Tech.)

Lecture on Modeling and simulation

Modeling and simulation has become a mandatory for any chemical engineering graduate who desires to work in an industry. To facilitate this need Department of Chemical Engineering, ANITS on 21st November 2019 organized a guest lecture cum interactive session by Prof. M. Chidambaram, Emeritus Professor of Department of Chemical Engineering, NIT Warangal. He spoke on “Modeling and Simulation in Chemical Engineering”. It includes topics related to Sensitivity analysis, model validation, analysis of deactivation and disguised kinetics in Transport reactor. He clarified our doubts patiently and encouraged us to learn and practice Modeling and simulation. After he completed the lecture he spoke few words which inspired us and one of his quotes “when you stop learning you stop growing” made him even more special.



Guest Lecture on “Current Trends in the Field of Engineering and Sciences”

Data analytics has become an important tool in present day's 'Tech-World'. Nano sciences are also spreading its wings to different parts of the Technology. To bring awareness amongst us our college has conducted a guest lecture cum interactive session on “Current Trends in the Field of Engineering and Sciences on 31st January 2020 by Mr. M. Ramakrishna, School of Systems Biology, George Mason University. ”. The speaker focused on opportunities for engineers in various fields like Genetics, Biotechnology, Nano sciences. He also emphasized on the importance of Data Analysis in the different fields. He shared his life experiences on how one can go for higher studies through research. He highlighted the role of statistics in our day to day life. It has been an interactive session where in the speaker cleared all our doubts and gave us some valuable information regarding higher education abroad.

Carrier opportunities in Animation

On 7th March 2019, we had a lecture conducted by the Department of Chemical Engineering, ANITS on "Carrier opportunities in Animation" by Ms. Santhoshi, Center Head, ARENA ANIMATION, Visakhapatnam. The speaker shared information on promising trends in the field of animation. Topics like Carrier opportunities, 2D and 3D graphics, VFX usage in movie making and 2D and 3D animations were discussed. We were attracted by the different dimensions possessed by the Animation field. We posted several queries to the speaker and she clarified them with patiently. Overall, this program has imbibed a lot of knowledge regarding Animation, VFX and other Computer Graphics (CG).

Lecture on Fire, Safety and Hazard management

14th February 2019 was an important day for many of us in the student community as our Department of Chemical Engineering, ANITS organized a guest lecture cum interactive session by Mr. S. V. Ramana Rao. The speaker was a veteran in Oil & Gas arena (HPCL, Caltex, etc.,) with an industrial expertise of more than 30 years. The Speaker shared important information on Fire, Safety and Hazard Management. He gave a brief outlook on fire fighting equipments, environmental, health and safety precautions to be considered during hazards. He also explained the concepts of oil spillage which was a threat to marine life. His lecture was different from the others and carried a special energy. He clarified our doubts patiently and advised us to maintain vigil around ourselves when working in an industry. It was a learning experience to all of us and we are now aware of all the safety measures to handle fire.

Education around around the world

The demonstration or procedure of bestowing or securing general information, building up the forces of thinking and judgement, and for the most part of getting ready oneself or others mentally for develop life.

SOUTH KOREA: The fundamental focal point of their framework is essentially training. They make a decent beginning with understudies, which brings them through the remainder of their instructive life. The understudies are known to go to class seven days per week. Guardians are eager to go through a ton of cash to get their kid the instruction they need. Instructors must be exceptionally qualified and are likewise paid acceptable pay rates. It is one of the desired vocation decisions in South Korea.

JAPAN/SINGAPORE/HONG KONG: All three frameworks have an innovation based training structure. They are additionally like South Korea in the way that their fundamental center is likewise essential training and they spend a decent level of their GDP on instruction. The essential, optional and advanced education levels are model in their methodology and work. The Singapore's service of training's ongoing arrangement of 'Show less, find out additional' is exceptionally mainstream and has slung its instruction framework onto the top rungs on the planet.

CANADA: Over the most couple of years, Canada has been an unexpected passage in the main 10 training frameworks amazing many. Their framework is straightforward. They center around three primary parts: proficiency, math and secondary school graduation. With an unmistakable vision, they have made a straightforward framework as a team with heads, educators and the association to make an educational plan and technique that is effective. The framework energizes collaboration, quality instruction, preceded with educator preparing, straightforward outcomes and a culture of sharing prescribed procedures.

Our Indian education system needs to be changed and reformed. There is no practical knowledge in our education system. Our education system mainly focuses on theoretical knowledge. Educational systems are gaining profit out of the students they are demanding lot of money to provide a valuable course because of this people who are in poverty line are not able to afford lots and lots of money to get educated though they are brilliant to gain knowledge

Secondly the education system is based on forward and backward class which is an hindrance because backward class does not get a quality education. Thirdly our education system does not give us the courage to face real life situations.

In terms of literacy, India is one of those at the top of the world rankings. In fact, Indians are known to be avid readers. According to a survey, an Indian reads an average of almost 11 hours a week.

Impact of privatization is penetrating all sectors of the economy, it is bound to affect education sector as well. Private education trusts often become merely profit making business ventures with no social ideals or objectives. The public sector is hampered by lack of resources and cannot meet the needs of industry and other sectors of the economy. While India can boast of having the third largest higher education system in the world, reality is that India is facing a severe shortage of skilled human resources.

-BVNS Pavan Kumar, (II/IV, B.Tech.)

LOVETHoughts

TEARS POURING OUT
OF MY EYES
WHEN I REMEMBER
YOUR FRAGRANCE
IT HURT ME LOT..
WHY DID YOU LEAVE
ME LIKE THIS?
TODAY U STAY SO
FAR TO
MEN EVER CAN BE
REACH

I WILL WALK THIS
PATH OF PAIN ALONE
IF IT MEANS I CAN
WATCH YOUR SMILE
BECAUSE IF I AM NOT
THE REASON FOR U TO
BE HAPPY. I DON'T
DESERVE TO HAVE YOU...

-K.AKSHAY (I/IV, B.Tech)



Chemflare 2k19 – A Tech Feast

Just around the time when Visakhapatnam was setting up for its hottest summer in twenty years, the Department of Chemical Engineering, ANITS has organized a two day National Level Student Conference Chemflare-2k19 during 28th February – 1st March, 2019. It comprised of several technical and non-technical events spread over two days. Amidst of all young and aspiring to be chemical engineers, research scholars, post-graduates, senior faculty from reputed colleges in and around Visakhapatnam, the Chemflare-2k19 started with the inaugural session which was graced by the chief guest Dr.G. Srinu Babu CEO and Managing Director, PULSUS, Prof.T.V.Hanumantha Rao, Dean, Academics, ANITS and Prof. S. Subba Rao, HOD, Chemical Engineering. Firstly, the session started with a speech given by the President of the RACE body, Mr. V.V.S. Karthik, introducing the student forum RACE and enlightened the august gathering on the events of Chemflare-2k19. Then it was the turn of Prof. S. Subba Rao who delivered a brief note on the responsibility of chemical engineers in solving the problems that arise out of the chemical industry. Next it was the turn of Prof. T.V.Hanumantha Rao who quoted several technological and scientific developments which had occupied the global arena. Finally, it was time for most anticipated speech of Dr.G. Srinu Babu who recalled his childhood days and cited the challenges he faced in his juvenescence. He then emphasised on the fact that for the progression of the country in the field of science and technology the students must think of becoming “Job Providers rather Job Seekers”. At the end of the session the associate editor of the department magazine, Mr. H.Tanuj Srikanth spoke about the origin and development of the department magazine “RASAGYAN” and then the second edition of the magazine was launched by Dr.G. Srinu Babu, CEO and Managing Director, PULSUS. The second half of the day was loaded with ‘Model Exhibition’ wherein student fraternity from various colleges showcased their innovative thoughts in the form of modals. This event stood out as the best among all the other events in the tech-fest solely because of the variety of models and the way they were presented by the students.





The Second day started on a serious note with 'Paper and Poster Presentations' coming from around 30 participants. The competition was very tough and the judges inevitably took considerable time to announce the winners. One can attain immense knowledge in the field of chemical engineering and its inter-disciplinary fields by solely sitting in the presentation hall. Post lunch, events like the 'Technical Treasure Hunt' and 'How Do You React' occupied the arena and saw a good number of participants.



Apart from the technical aspects, non-technical aspects of the fest like "Spot Events" attained positive response and participation from student fraternity irrespective of departments. At around 4 pm it was the time for the valedictory session wherein all the winners were rewarded and participants were given the 'certificate of participation' for their active participation. After the valedictory session students geared up for the most awaited cultural night where different arts ranging from singing, dancing, acting, etc. were exhibited with lots of joy and enthusiasm. Overall, the Chemflare-2k19 arguably stands out to be the most engaging technical fest that was conducted in ANITS in the year 2019.

*-Ms. S. Harika
(Convener, Chemflare-2k19)*



MY DEAR DAIRY

10:12PM, 31st December 2085.

Fifty years have passed since mankind began migrating to the new frontier: Mars. It's an age where most culture is produced by AI, and people are content to be passive consumers.

People are busy with the works for celebrating Golden Jubilee tomorrow. My grand kids are very eager about the New Year. Looking at their smile and energy it reminds me my childhood. Yes I remember everything like it happened yesterday. I was born in a small village near Araku Valley (Andhra Pradesh) in India on the EARTH. I was 8 year old kid then. On the 31st evening I was roaming in the woods with my friends where we were planning to celebrate the New Year. It's few miles away from my house. We were enjoying the greenery and talking to each other while walking towards the water falls. We reached there by 6:30 PM. We removed our shirts and jump into the water with the pants. The water is very cool like ice and I thought I was freezing but that feel was of another world, in the fresh cool water breathing the fresh air from the woods looking at the sky and playing with my friends forgetting everything. It's the happiest moment that I had and we played there happily for an hour. We decided to head back, so we came out of water, wiped and put our clothes on.

We reached home, by then the celebration started. "In our village we had a special way of celebrating Eve. All the people gather around, cook and eat food together. Later at 12:00 AM our elders started beating drums and all the people do our special Dimsa dance. Then finally we all sat together to talk for a while and went to bed.

As I mentioned those were great days where there is no buying of water, no calculation of oxygen level in air like we do these days. But all that had changed in meantime by various reasons and these kids think these are the best days by unknowing all those days. Unlike them I'm scared of the future. It's just the change place and life style but human beings are the same. The desire of the people which caused the extinction of life on Earth is not changed even on the Mars, moreover it increased and the result is the domination of AI on humans. I hope that at least on Mars the life will extinct and the old chaos would have no place here on the Mars.

With all this hopes the New Year is here. Good Night my dear diary

A handwritten signature in black ink, appearing to read 'P. Poorna Chandrasekar', written in a cursive style.

-P. Poorna Chandrasekar, (IV/IV, B.Tech.)

ALONE

I want to live in a house with big windows,
I want the house to be large enough to have a kitchen, table with four chairs,
But not too many to feel that I have debt with my loneliness because,
I'd probably be alone but I think alone is why I feel so consuming with windows,
That still protects me from the world but still permits me to watch it.

Loneliness is not my greatest enemy but I would rather say it as my companion which stayed with me for a very long time which might help me sit beside with a cup of tea on the table and letting me watch the "Joy of life" through windows with peace.

-P.D.Abhiram, (III/IV, B.Tech.)



Seed on The Moon

Chandrayaan (Moon Vehicle) 1 was India's first mission to Moon. The data provided by Chandrayaan's payloads were used by the scientific community to study the Moon and its environment and played a significant role in bettering our understanding of the Moon. And after a decade India sent its next expedition to moon the Chandrayaan 2, through this mission ISRO wanted to explore the possibility of water molecules in the lunar South Pole, the area which remains in shadow and covers large portion of the moon when compared to the North Pole. But unfortunately, the mission was successful in only by placing the obiter in the moon's orbit.

My idea is "plantation on the Moon" it sounds awkward but what I believe is this program could yield results. The main criteria for plant growth are sunlight, water, carbon dioxide. With the same criteria let's conduct the tests on the Moon. Let us take some pack of seeds and throw on the Moon's surface. If a plant lives then we can conclude that water, light and carbon dioxide are present on the moon. So, the released oxygen, water, light is sufficient for a man to survive. By this, we can say that life is a possible on Moon.

This is just a single thought which emerged from an enthusiastic citizen of the nation. To this if we can add another 1.3B thoughts we could change the face of India in the field of science and technology.

- D. Sumanth (III/IV, B.Tech.)

Love Thoughts

PERHAPS IT WAS YOU
WHO LOVED ME OR ME
WHO LOVED MORE
PERHAPS IT WAS YOUR
HEART I WANTED OR
MINE THAT I KEPT
WITHDRAWN PERHAPS I
LOVED TOO HARD OR
PERHAPS I BARELY
LOVED AT ALL I KNOW
IS THAT SOMEWHERE
ALONG THE LINE MY
LOVE WAS EITHER
TOO MUCH
OR NOTHING AT ALL....



-K.AKSHAY(I/IV, B.Tech)

BURNT IN THE FIRE OF HATRED

So you people have come again today,
Where are you planning to burn me today?
How will you make me believe that this won't happen again?
How will you make me believe that you won't associate me with a particular religion?
I often meet the wandering souls who still haven't slept in those graveyards
Souls of the people you burnt during the riots.
Some of you could only recognize my SAFFRON,
Some spoke about the GREEN in me;
But, you forgot to notice the color of PEACE in me.....
It looks like you still haven't recognized me;
It happens..... because people usually forget the dead;
But, do not forget me so easily,
Coz I am the one that you decorated with joy.
I am the indication of your freedom;
After being burnt everyday in the fire of hatred.....
I still live in the hearts of MANY
Yes, I have been painted in the color of peace, courage and freedom.....
Yes, I am hoisted at the peaks to signify your victories
I myself am a cloth
Do you recognize me now?
I am the "TIRANGA", your national flag.

-V.Sinduja, (II/IV, B.Tech.)

A STUNNING ODYSSEY

The much awaited journey that I have dreamt all throughout my B.Tech life is about to begin, with a lot of plans in my mind and wishing not to waste a second of my time in the whole trip, I left to station with my dad. The train is late as usual.

The phone rang continuously and my inbox filled with wishes. I stepped into the train and was waiting for my friends to arrive. Their presence filled my heart with joy. The train journey was unforgettable, we played, laughed, we shared our thoughts until station arrived (kharaghpur).

We took electronic taxi to the place we need to go and we were stupefied by the grand entrance of IIT. I was starving and looking for food everywhere there, I happened to see a stall where I surprised to see one of my favourite foods, momo. With out any delay I bought one, ate less and distributed more. It was a dull start and everyone where tired due to journey but all our drowsiness was taken off by the most cherishable DJ night. We formed like a band and danced with full of energy.

The next day I was supposed to give a presentation which was dud. After we attended a couple of seminars we went to explore chemical engineering department and captured our memories in mobile phones. It was getting late and we rushed to arena to attend 2nd day of DJ night. This time I was on the top of the world by dancing on the table.



Next day we rushed to station to catch a local train. The next minute we stepped in Kolkata we separated ourselves to find rooms. We are fortunate to get rooms near railway station without waiting a second, we took travels and covered major tourist places. At the end of the day we went for shopping in the "New Market" where I bargained like a pro and the imitation of my friend made me feel like "wow".

The next day we didn't plan anything for food but Abhiram and I went on to eat everything. We ate almost all the varieties that were famous in Kolkata from sweet to hot. The darshan of famous "Kali Maa" was very delightful and we returned to station with hurry to catch our train. The train about to leave and everyone rushed with their baggage. The scenario was bit funny but it was unforgettable.

The return journey was much more intensified than previous journey and I departed myself from them as my station arrived, with inexpressible feeling but I left with smile.

There isn't 0.0001% dissatisfaction throughout my odyssey and I recommend everyone who is reading this article to plan a trip at least once in your B.Tech phase.

-Pushpa Lalitha Nagireddy, (III/IV, B.Tech.)

MATLAB-Enhancing the minds of Engineers

The workshop "MATLAB FOR ENGINEERS" organised by our department in association with ANITS IChE students chapter under Waltair region on 27th and 28th December 2019 was very informative and useful to all the participants.

The chief Guest Prof R.Padmasree (chemical engineering, Andhra University) explained us about the origin, uses of MATLAB. She also gave a brief explanation on various commands and usage of it in bio reactors, control system, dynamic reactor problems. Her explanation was a effective one which introduced many interesting facts of MATLAB that can be used while doing the subject related problems.



Later on Dr.B.Srinivas professor (GVP COLLEGE OF ENGINEERING) gave a brief lecture on "Optimization of Reactors", he explained on how can we optimize and design reactors using simple commands in MATLAB. Designing those flow sheets and working on it was a good experience.

Apart from lectures we had hands-on sessions on basics of MATLAB software, Solving linear and Non-linear equations, curve fitting, Differential and integration of equation. Around 107 participants from different colleges and departments of our college attended the workshop which gave us a chance to interact with different minds and solving the worksheets given to us with them.

Dr Ch.Anil (Hod), Prof.R.Srikanth, Dr.M.Shiva Naresh, Dr.Anjali, Mr.koteswara Rao, Mr.B.Pradeep Santosh kumar were our resource persons for the workshop who helped us in understanding the commands and also clarified our doubts.

The two day workshop was very much beneficial and taught me a lot of things including the importance of computational skills in the present era. MATLAB tools were easy to understand and I was able to apply that to solve various matrices problems and plotted graphs easily than other languages. We also got an exposure to apply what we have learnt practically through hands-on-session.



- Aditi kumari (III/IV)



Music is in my blood.....

Music is not just a couple of words arranged to make pleasant combination of sounds.. It's a different language.. a language that's inside every person... It's a language that gets both the singer and the listener involved that they forget their surroundings.

When we listen to music, we're in a world of our own created by music. It has no boundaries. It can be sung by an American, Indian, African, Pakistani anyone who enjoys the taste of music. It can be in any genre like pop, rock, melody or any language like English, Hindi, Telugu, Malayalam, Punjabi, Spanish, etc..

When it comes to music, the horizons are as vast as the universe! It has the own power to connect the entire world to connect people across different continents, countries, states, cities, districts who speak different languages and different cultures. Music can also break the enmity, join any broken bond and heal the world.

Music can play an imperative role in our life – a person cannot always be judged by his mannerisms or speaking skills, but his choice of songs can speak a lot about him. Persons have own collection of songs, but the song most dear to can keep changing with changing with their lives.

Life never fails to surprise us... and so music does. I am sure that there's a song for each one of you out there.

Like I said, the right song can do a lot to you....

It can make you cry like you've never cried before...

It can make you the happiest person on the Earth...

It can make you to fall in Love...

It can change your mood and clears all tension; it can also depress you and console you at the same time...

There's no end to what music can make you feel...

Trust me..

Because I've felt it..

And you will too...

-A. Joel Sunadh Christin, (IV/IV, B.Tech.)



SOUL SATISFIED

Chemical Engineering is not at all my choice of studying B.Tech. Even in the second counseling I tried to avoid it but later on I realized that chemical engineering itself chose me. I don't know what I learned from the past four years but I'm sure that those four years gave me enough courage to write these words and this is because of my faculty. Every student has some favorite lecturers in his or her B.Tech life. My favorites are Shiva Naresh sir and Pradeep sir. I don't know why these two are my favorites but my mind's entropy and rate of reaction are so high during any conversations with them. Now coming to my friends, I always remember A.P.J's quote about friendship "Old friends are like gold, new friends are like diamond. Don't forget gold when you get diamond because only gold can hold a diamond." But I never used to follow it. But this is the phase where everyone gets to know the true essence of friendship. I wish those days would come back and I truly apologize to everyone. Now at the end of my B.Tech life "MY SOUL IS SATISFIED".

-Ch.Sai Kiran, (IV/IV, B.Tech.)



Technology I can't live without

These days technology helps us in many ways. Taking from transportation to communication to entertainment and many more. Smart phones are now the biggest thing in the tech world. Without these so called smart phones my life could be very different.

Communication is the main reason behind me using a device like smart phone, which opens up door for me to contact and cherish my happiness as well as sad moments with my family at distant parts in this world.

After getting into this 21st century the entry of smart devise completely reshaped the way of communicating.

Coming to entertainment, another big advantage with these devices is we can have a long chain of social media which keeps us entertained as well as updated as it's impossible for anyone to know everything happening around him.

Last but not least, with these devices taking over our leisure time, we have become so occupied and busy without this hand in informative devices I can't even imagine what my world could be...!

-Ravi.G, (III/IV, B.Tech.)

OLD	PRESENT DAY
Haste makes waste.	The early bird gets the worm.
He who lives by the sword dies by the sword.	Attack is the best form of defence.
Clothes makes the man.	You cannot judge a book by its cover.
Home is where the heart is.	Familiarity breeds contempt.
Money is the root of all evil.	Money makes the world go around.
Absence makes the heart grow fonder.	Out of sight, out of mind.
Good things comes to those who waits.	He who hesitates is lost.
Stop and smell the roses.	Make hay while the sun shines.
Hard work pays.	Smart work pays.
Many hands make light work.	Too many cooks spoil the broth.
You get what you pay for.	The best things in life are free.
Nothing ventured, nothing gained.	Better safe than sorry.
Early to bed, early to rise, makes a man healthy, wealthy and wise.	Eat, drink, and be merry for tomorrow we die.

-Neha Riya Siby , (III/IV, B.Tech.)

Expedition - Aurobindo

It is always a great fun to travel with friends and explore different places; if it comprises a technical flavor then the amount of excitement is incomprehensible. One such was the expedition to AUROBINDO PHARMA LTD., PYDIBHEEMAVARAM on 14 September 2019. We the third years' are accompanied by faculty, Mr. M. Koteswara Rao, Ms. S. Harika and Lab Technician, V. Pawan Kumar. We started from the college at 9 am and after an hour of journey in our college bus, we reached the plant. Upon our arrival we were greeted with safety helmets, which we were instructed to wear at all times during our visit.

After the formalities we were asked to wait in a hall and after a few minutes Mr. Narayana Rao, Manager-QC has given a brief outlook on the Company and processes being carried out. This session lasted for about half an hour. After a short tea break, Mr. Shivaji, AGM-QC explained the necessity of a QC lab and gave a detailed demonstration on different equipment like HPLC, GC, UV-spectroscopy etc., these engaging sessions gave us a brief idea about the industry and various processes which were being carried out.

All of us were eager to check out different units of the industry and to guide us we had Mr. P. Srinivasa Rao, DGM-QC. He accompanied us to the Penicillin production unit elaborating about reactor, crystallizer, dryer etc., and cleared our doubts patiently. We gained practical knowledge apart from theory in our visit. We were satisfied with an exposure to pharmaceutical company and their working environment. The visit ended with a hospitality lunch provided by Aurobindo Pharma Ltd which was appetizing.

We thank our HOD Dr.Ch.Anil for making this happen and cherishing our dream of visiting a pharmaceutical industry. We hope many such visits will be conducted in future, so that we can gain more industrial exposure.



-Abhishek Reddy, (III/IV, B.Tech.)

CHEMINEER CLICKS



Ronald(III/IV)



sasidhar(IV/IV)



Daniel(I/IV)



CHEMINEER CLICKS



Vaishnavi(I/IV)



Nikhila(I/IV)



Sudarshan(II/IV)



Tanuj(IV/IV)



Technical work @ Chemineers

Batch -1

Production Of Ethanol From Organic Wastes

Due to increase of organic wastes from agriculture and domestic households, Waste management has become a challenge. To overcome this problem and use these wastes for proper use. Ethanol is a chemical compound, a simple alcohol with the chemical formula C_2H_5OH . Ethanol when prepared from organic wastes can be termed as Bio- Ethanol. Bio-Ethanol increases the octane (mixture of iso octane and n-heptane) of the fuel with a small cost, virtually usable in all vehicles, Easy to produce and store. It can also be mixed with gasoline to produce the fuel with less toxicity and The fuel spills are more easily degraded or diluted to non toxic concentrations.

Batch - 2

Conversion of plastic Waste to Fuel

With Rapid increase in the human population across the globe, waste management has become a major problem for most countries. The scope of converting plastic waste to fuel through pyrolysis helps to reduce plastic waste by effectively recycling it. The implementation of pyrolysis for this process is necessary to break the macromolecular structure of the polymer to smaller molecules called cracking. The temperature that is maintained is 300-500°C. The external heating can be carried out by using raw materials such as coal, wood and etc., The process is effective in catalytic cracking over thermal cracking, but it also depends on the catalyst cost, regeneration and etc.

Batch - 3

Graphene based batteries

Single-layer graphene was explored theoretically by P. R. Wallace in 1947. Graphene is an allotrope of carbon in the form of a single layer of atoms in a two-dimensional hexagonal lattice in which one atom forms each vertex. It is the basic structural element of other allotropes; including graphite, charcoal, carbon nanotubes and fullerenes. The graphene is produced by Electrochemical exfoliation technique. In this process graphite rod is immersed into 0.1M Na_2SO_4 then the exfoliation takes place which gives the graphene powder. The powder is filtered and dried. The graphene powder is moulded into a rod and is used as anode. The Zn is taken as cathode and $ZnSO_4$ solution is used as electrolyte. It is a rechargeable battery which is having high efficiency than Li-ion battery. It is eco-friendly and economical.

Batch-4

Production of Gasoline by FCC

Fluid catalytic cracking (FCC) is one of the most important conversion processes used in petroleum refineries. It is widely used to convert the high-boiling, high-molecular weight hydrocarbon fractions of petroleum crude oils into more valuable gasoline, olefin gases, and other products. Cracking of petroleum hydrocarbons was originally done by thermal cracking, which has been almost completely replaced by catalytic cracking because it produces more gasoline with a higher octane rating. It also produces byproduct gases that have more carbon-carbon double bonds (i.e. more olefins), and hence more economic value, than those produced by thermal cracking. Oil refineries use fluid catalytic cracking to correct the imbalance between the market demand for gasoline and the excess of heavy, high boiling range products resulting from the distillation of crude oil. The modern FCC units are all continuous processes which operate 24 hours a day for as long as 3 to 5 years between scheduled shutdowns for routine maintenance. There are several different proprietary designs that have been developed for modern FCC units. Each design is available under a license that must be purchased from the design developer by any petroleum refining company desiring to construct and operate an FCC of a given design.

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Batch - 5

Extraction Of Chitosen From Prawn Shells

There are different kinds of sewages obtained from industries, agriculture and households. Wastewater contains organic and inorganic materials like dyes, antibiotics, heavy metal ions etc., wastewater includes physical chemical and biological methods with various technologies like adsorption, filtration, biodegradation, oxidation and reduction, UV radiation, flocculation/coagulation. Due to the increase in chemical pollutants in water, wastewater treatment has become more uneconomical. Chitosan acts as the best solution in treating waste water to attain sustainability in environment. Chitosan is a second abundant polysaccharide after cellulose. After consuming sea food left over is dumped into seas which is one of the main pollutants in coastal areas. Chitosan is mainly present in marine animals like crab, shrimp and crustacean shells. This crustacean shell mainly consists of 30-40% protein, 30-50% CaCO₃ and 20-30% chitin. Chitosan is obtained by treating shrimp shells and crustacean's shells with NaOH, HCL and acetone. Present study is focused mainly on extraction of Chitosan from prawn shells and there by using it as adsorbent for treating water pollutants like copper metal ions.

Batch - 6

Extraction of Silica from Rice Husk

Rice husk is an agricultural residue abundantly available in rice producing countries. But the problem lies with the disposal techniques. Silica is the major constituent of rice husk ash varying from 85%-95%. With such large Silica ash content, it becomes economical to extract silica from the ash. In this project an attempt is made to introduce a simple process to extract silica from the "rice husk ash". The extracted silica is highly dispersible and has wide variety of applications. It solves the disposal problem of husk as well as a valuable product is manufactured from it.

Batch - 7

Fabrication Of Ceramic Membranes For Water Filtration

Contemporary research in ceramic composites for membrane applications targets the fabrication of stable low cost micro-filtration range membranes. This work reports the fabrication of stable low cost mesoporous membranes deploying subsequent formulations based on kaolin and other suitable low cost materials such as quartz, sodium carbonate, calcium carbonate, boric acid and sodium meta-silicate. Incidentally, the processing temperature in this work is about 850-1000 °C instead of 1100 °C which is the usual sintering temperature for inorganic membrane fabrication. The membranes casted as circular disks (52.5 mm diameter and 4.5 mm thickness) were subjected for characterization studies using TGA, XRD and SEM analysis, to evaluate the effect of maximum sintering temperature on membrane structure, porosity and mechanical integrity. Pore size distribution, porosity, average pore size of the membrane along with permeation experiments with water is carried out to study the membrane performance

on membrane structure, porosity and mechanical integrity. Pore size distribution, porosity, average pore size of the membrane along with permeation experiments with water is carried out to study the membrane performance

Batch - 8

Removal Of Chromium From Synthetic Water Using Electro Coagulation Method

Cr(VI) is one of toxic metal that cause serious threat to human health and the environmental because its non-biodegradable. Among the technologies for removing these pollutants, electrocoagulation can be considered as an effective method where the flocculating agent is generated by electro-oxidation of a sacrificial anode. This method have some advantages such as less amount of produced sludge and high efficiency in removal of pollutants. Synthetic chromium wastewater was prepared. The process was conducted at pH 3. The electricity current was setting at 3 Ampere. The variable of time of electrocoagulation at 1 and 2 hours. After performing the process on electrochemical cell, samples are analyzed by the UV spectrophotometer regarding amount of Cr(VI) metals.

Batch - 9

Removal Of Heavy Metals From Aqueous Solutions Using Adsorbents

With the onset of industrialization mankind has experienced development and prosperity but also various environmental issues in the society and one of the most visible impacts are in the form of water pollution. Effluents from various industries which are being released into the water bodies in the form of toxic heavy metals is a serious threat. The conventional methods of heavy metal contamination include chemical precipitation, chemical oxidation, ion exchange, reverse osmosis etc. These methods are costly, energy intensive and often associated with generation of toxic byproducts. Thus adsorption has been selected as a cost effective method for the removal of heavy metals from aqueous bodies. Our project aims at determining the effective adsorbent which adsorbs the heavy metal at different varying factors like pH, concentration, temperature, agitation time, adsorbent dosage etc. A comparative study of the different adsorbents is done by experimenting the adsorbents and tabulating the results with graphs.

Batch- 10

Production Of Bio- Diesel

Biodiesel is an alternative energy source and could be a substitute for petroleum-based diesel fuel. To be a viable alternative, a bio-fuel should provide a net energy gain, have environmental benefits, be economically competitive, and be producible in large quantities without reducing food supplies. Most of the sources, methods and apparatus to produce biodiesel are reviewed here. Some of the patents propose the use of oils and fats of animal or vegetal origin and other kind of sources. Many others focus on the methods for the production or oxidation stability of the bio-fuel in order to make its production economically competitive. Several apparatus comprising reactors and refineries are also presented. This review article summarizes recent and important patents relating to the production of biodiesel to make its production a viable alternative.

WE-MEN NEED CHANGE

Safety of Women has become a major issue in India now. The crime rates against women in the country have been risen to a great extent. Women think twice before stepping out of their homes, especially during the night. This is, unfortunately, the sad reality of our country in which women are living in constant fear.

Women in India have been given equal rights as men; however, people do not follow these rules. They contribute to the growth and development of our country and yet they are exploited.

It is extremely painful to watch the status of women's safety in India, especially in a country where women are given the stature of goddesses.

Few measures can be taken to ensure women's safety in our country. Firstly, the government laws must be stringent that ensure the punishment of criminals immediately. Fast track courts must be set so the victim gets justice instantly. This will serve as a great example for other men not to commit crimes against women.

Most importantly, men must be taught to respect women from an early age. When you consider someone inferior, you tend to oppress them such kind of thinking should be erased.

Crimes against women are stopping the growth of our country. We must not put the blame on women and ask them to be extra careful. Instead, we must ask the men to change their thinking and work to make the world a safer place for women.

-P. Guttiswara Rao, (IV/IV, B.Tech.)

English

A FUNNY LOGIC

English is undoubtedly the most popular language in the world. It has its origin rooted in French, which is the language spoken in most of Europe. Slowly, the intricacies of *ta* and *te* in French were transformed to the supposedly the of English. A limited collection of phonetically inconsistent 26 letters was prepared over a period of a few decades in the past ages.

Words have different meanings, yet the same spellings have resulted in many a tight situation. But the phonetics of English words have confused countless scholars. If B-U-T is pronounced as *but*, then should not P-U-T be pronounced likewise *put* rhyming with *but*? The way the spellings are is also a logical question. Why write *Programme* and let the person waste letters while he could do good with 2 letters less as in *Program*? Words having the same pronunciations have different spellings *hot* and *haute*. Isn't this language so illogical? Debates unnumbered have been fought over the feasibility of this King's language. Surely, there are infinite languages like Sanskrit, Chinese or French which have a certain scientific sense. Then why make and call English the official language of the world?

That's probably because the British Empire which spread its wings on a major portion of the world and carried this language's seedlings too that led to the suppression of highly logical languages. So ultimately, we have to bear with the ever burdening Logistics of English and understand, why the tenses of *beat* remain *beat-beat-beat* and not *bet*. English is a funny language, but there's a hint of remarkability in that too. Composing a language based on pure logistics highlights people's creativity. While some logical subjects leave very less room for creativity, it can easily creep into the spacious the thoughtfully created windows, doors and mouse holes.

Till then, praise the language you speak and write in through relentless satires dipping then with sarcasm.

On every hand, in every land, it is thoroughly agreed, English is a funny language, indeed

-I.ANIKETH (III/IV, B.Tech)

Indigenous to Australia

There lived a family of 2 kangaroos in a forest called southern forest. One fine day, a baby was born to them. Male kangaroo used to go along the forest in search of food for its wife and baby. Days passed over, baby started to hop and the male one became too old to gather food. So one day baby and the mother went in search of food. The weather is too hot and dry but very soon the weather turned cool and all other animals came out. Baby found it as a chance to make friends and without further thoughts it jumped out of its mother's sap to reach its friends. Everyone gathered at a place and was enjoying the cool breezes of the weather. Suddenly there came a lighting followed by thunder and dropped pin drop silence around them.

From the distant woods, came the words "Run away! The forest is on fire". The voice is male kangaroo's. Everyone couldn't move for a second. After that they came out of the shock and began to run away. The male kangaroo is running towards the other animals to convey the news. At the same time, the whole forest was on fire in all directions.

Every animal tried to run as fast as they could. But there's no way left. Already the fire had blocked the exits of forest. All the animals who didn't even commit any sin became feed to the fire.

-V. Madhavi Latha, (IV/IV, B.Tech.)



TEAM INDUS

A failure to be remembered

Team INDUS is recognised as the first Indian Space Research start up that was established to down pat the questions on moon. The zeal to begin this has started with the aim to win the Google Lunar X-Prize Competition announced in 2007.

Whilst all the challenges, it was established in the year 2011 by the space enthusiasts Dilip Chabria, Julius Amrit, Rahul Narayan, Sheelika Ravishankar and Sameer Joshi with its head quarters in Bengaluru. It consisted of a team of professionals from various backgrounds in Science, Technology, Finance and Media.

The challenge was to design a competing craft that has to travel more than 500 metres on the lunar surface and transport high resolution video and images from there. The launch deadline was 31st March 2019, for which over 30 teams from 17 countries have registered and Team INDUS was the only one participating from India.

Team Indus initially planned to attempt to win the endurance and distance bonus prizes by designing lunar lander and 2 rovers. The lunar lander was named HHK-1, AKA ECA abbreviated as Ek Choti Si Aasha.

With over 150 staff working all day long on the 30 million dollar project, this mission has been their dream of lifetime. For over 7 years, the team showed immense dedication to stand in the race and finally designed its rover.

The time has come, and now their efforts are to be tested. They approached ISRO to get their rover checked in terms of its efficiency. Sadly, the team couldn't afford the charges listed by ISRO to launch the rover. After long awaiting, the team gave up its dreams to launch the ECA rover and got back in the race of Google's Lunar X-Prize Competition in the year 2017.

It is true that, sometimes, the hardwork you do may not pay off in the right time but teaches you lessons that are to be learnt right now.



GOOGLE LUNAR X PRIZE
-Reshma Kalla, (III/IV, B.Tech.)



EMERGING TRENDS IN CHEMICAL ENGINEERING

We know that the human activities which involve the processes developed by the chemical engineers are the main cause of environmental pollution.

The need of the hour is to have safe, compact, flexible, energy efficient, and environmentally benign chemical processes that are conducive to the rapid commercialization.

Chemical engineering not only utilizes the available resources but also helps in managing the world's resources protect the environment and ensure health and safety standards are met.

Nowadays chemical engineers design, maintain and operate various industrial plants and large-scale machineries.

There is a broad spectrum of employment for chemical engineers in the fields like energy, food, and pharmaceutical sectors.

The emerging trends in Chemical Engineering are:

1. Biotechnology

Chemical engineers working in biotechnology work in conjunction with researchers in molecular biology, biochemistry, genetics, embryology, and cell biology to advance procedures in gene testing and gene therapy.

2. Renewable energy production

We all are aware that the fossil fuels are about to exhaust in a few years so it's the world's basic need to develop an alternative for it and this can be done only with the help of a chemical engineer.

3. Nanotechnology

Chemical majors such as BASF are among the leading companies working to develop solutions for global issues using nanotechnology. The company is working on a new generation of nano-foams.

4. Petro-chemical derivatives

We may think that the opportunity of chemical engineers is about to end in Petro-chemical industry. But the need of chemical engineers is high now, to develop new derivatives from the waste products in a Petro-chemical industry.

5. Space Science

Chemical engineers are faced with the prospect of reproducing an entire production facility in miniature so the complex can be lifted into space and delivered to our destination. Therefore, the scope of chemical engineers is also increased in the space science.

-Dante Ronald, (III/IV, B.Tech.)

DADDY AT DIFFERENT AGES

At 04 - My daddy is great.

At 06 - My daddy knows everybody.

At 10 - My daddy is good but is short tempered and knows a little less than my friends' dad's.

At 12 - My daddy was very nice to me.

At 16 - My daddy is not in line with the current times. Frankly he does not know anything.

At 18 - My daddy is becoming increasingly rankly.

At 20 - Oh! It's becoming difficult to tolerate daddy, wonder how mother puts up with him.

At 23 - My Daddy is objecting to everything; don't know when he'll understand the world.

At 30 - It's becoming difficult to manage my son. I was so scared of my father when I was young.

At 40 - My Daddy brought up me with so much discipline. I wonder how he managed to handle the young generation.

At 45 - I am baffled as to how my daddy brought us up.

At 50 - My daddy faced so many hardships to bring us up. (We were four brothers and two sisters) I am unable to manage a single son.

At 55 - My daddy was so farsighted and planned so many things for us even at this old age; he is able to control things. He is one of his kind and unique.

At 60 - My daddy was great.

Thus, it takes 56 years to complete the cycle and come back to the first state! But alas! He is no more with us. So, don't waste time and never forget your parents. Realise it in time!!

-B.V.Karthik Kiran (III/IV, B.Tech.)

Wastewater Treatment using Graphene and its Oxides by Adsorption Techniques

Since the past century, water bodies across the world are heavily polluted due to uncontrollable contamination of heavy metal particles, toxic dyes, Industrial wastes, and domestic wastes. So, there is a need for purification of this contaminated water. There are many techniques available for wastewater treatment but adsorption is highly preferable. In adsorption, there are many options available to select materials and methodologies. These days Graphene and its oxides are preferred widely as adsorbents.

Graphene is a 2-dimensional mesh of carbon atoms arranged in the form of the honeycomb lattice. It is strong, durable, thin and also good conductor of heat and electricity. However, Graphene is very costly but Graphene oxide can be easily produced at less cost and has a wide range of industrial and daily life.

Micro-mechanical cleavage, Chemical Vapor Deposition, Chemical reduction of GO through exfoliation, etc., are the familiar techniques employed for graphene production.

Due to its extremely wide surface area as well as abundance of functional groups, the Graphene seems to be an ideal option. The Graphene has certain potential advantages including high selectivity and excellent permeability of desired molecules/Ions. In addition to these merits, the membrane should be cost-effective and should have good stability in terms of mechanical and chemical aspects. The chemical structure of graphene enables itself to act as a membrane.

Applications: Microorganism removal by Graphene oxide: By using redox, active crystalline ruthenium complexes as considerable non-covalent linkers in GO composite hydrogels. The adsorbed bacteria due to hydrogels, then inactivated by introducing high voltage continuous electric pulse.

Sterilization of Medical products: Because of effective bacteria removal rate, cost-effective reusability and minimal production cost, GO hydrogels are preferred.

Waste Water treatment: GO nanoparticles can be used in wastewater treatment. Studies show that aqueous solutions with a wide range of substances like heavy metal ions, organic pollutants can be adsorbed quickly by Graphene.

-Nukaraju.G.S.A, (III/IV, B.Tech.)

A Comfy letter

In the first 55 years of operation of the Indian Railways, there were no toilets in trains. On July 2, 1909, an aggrieved Babu Okhil Chandra Sen lodged a complaint to the then Transportation Superintendent, Sahibganj. ... After this incident, the toilets were introduced in the Indian Railways in 1909–1910. So let us see what he has written.

Dear Sir,

I am arrive by passenger train Ahmedpur station and my belly is too much swelling with jackfruit. I am therefore went to privy. Just I doing the nuisance that guard making whistle blow for train to go off and I am running with 'lotah' in one hand and 'dhoti' in the next when I am fall over and expose all my shocking to man and female women on plateform. I am got leaved at Ahmedpur station.

"This too much bad, if passenger go to make dung that dam guard not wait train five minutes for him. I am therefore pray your honors to make big fine on that guard for public sake. Otherwise I am making big report! to papers."

Your 's faithfully servant
Okhil Chandra Sen

Known , that there a few spelling errors but just think of his situation. So next time when using a train toilet, thank Okhil Babu for his hilarious letter!

(With thanks to Prof. R. Srikanth)

-Shorab mallo, (IV/IV, B.Tech.)



THE GENTLEMEN GAME



Cricket is one of the most popular games in India from 18th century. It is not our national game, this game is introduced by British when they ruled in our country. Every single person in our country plays this game with enthusiasm from children to elder people. In our country there is huge craze with different forms of cricket. The cricketing countries are England, Australia, India, Pakistan, Sri Lanka, South Africa, Zimbabwe, New Zealand, West Indies, and Bangladesh, Netherlands, Ireland and the United Arab Emirates. There are different formats played across all over the world namely test, one day international and twenty-twenty cricket.

Till now cricket is not being played in Olympics because it is called as Drinker's game which mean if the ball is hit by the batsman only one fielder will run and the others are rest in their standing position so this is the reason to not implement in Olympics. Although it is popular because of batsman or bowler will read the opposite side mind before they play shot or bowl a ball. While playing cricket lot of concentration is needed.

There are a number of trophies conducting by indian cricket team (1) Duleep Trophy, (2) Vijay Hazare Trophy, (3) Ranji Trophy (4) Indian Premier League and different ICC WORLD CUP tournaments are being conducted by international cricker council. Famous tournaments in the world are World cup, Ashes, Asia cup, Alen Border - Gavaskar cup and clash between India and Pakistan in any tournament. Cricket is a game of participating two different teams with 11 players in each team. If one team is batting and the other team is bowling, Batting team play only with two players at the instant of time and bowling team play with 11 players. Most popular players in international cricket are Don Bradman, Viv Richards, Sachin Tendulkar, Brian Lara, Ricky ponting, Jacques Kallis, Wasim Akram, Mahendhra singh Dhoni, AB de Villiers and many other players.

-S.Manikanta, (IV/IV, B.Tech.)

Time To Express

To my most favorite person, by whom I was inspired. I'm going to dedicate the following stanzas to you (as a part of my inner feelings).

“You came in front of me as a Guru
You encouraged me like a friend
You supported me like a father
You scolded me like a brother
You fought with me like a sister
You forgave me like a mother
You gave another chance like a god

You went away from me like a fairy” (Haven't come back yet)

Besides these words, I couldn't find any other words to say that I obey your words, I respected you, I'm guilty for my mistakes, I'm regretting and also feeling regret for the mistakes I've done with you. I want to apologize a crore times, but I couldn't express it just by my words. Now I'm writing this for you because, this is the only instant I got to share my inner feelings from the past 3 years.

-Anonymous Chemical Engineer

**To the anonymous Chemical Engineer, we have published
your article as per your request**





A Gene From Past

“The wonder of Discovery is especially keen in childhood”

Srinivasa Aaiyangar Ramanujan was the one who never lost his joy at learning something new. As a boy he impressed his classmates, senior students and teachers with his insight and intuition.

One day in Arithmetic class on division the teacher said that if three bananas were given to three boys, each boy would get a banana and he generalized this idea. Then Ramanujan asked “Sir, if no banana is distributed to no student will every one still get a banana?”

Ramanujan’s math ability won several friends to him. Once his senior student posed a problem “If $\sqrt{x+y}=7$ and $x+\sqrt{y}=11$, what are x and y ”. Immediately Ramanujan replayed $x=9$ and $y=4$. His senior was impressed and became a good friend to him.

In his school days, along with school homework’s, Ramanujan worked with some patterns out of his interest. Ramanujan is undoubtedly the most celebrated Indian Mathematical genius. He was born in a poor family at Erode in Tamilnadu on December 22, 1887. Largely self taught, he feasted on “Loney’s Trigonometry” at the age of 13, and at the age of 15, his senior friends gave him synopsis of Elementary Results in Pure and Applied Mathematics by George Carr. He used to write his ideas and results on loose sheets. His filled note books are now famous as “Ramanujan’s Frayed note books”. Though he had no qualifying degree, the University of Madras granted him a monthly Scholarship of Rs. 75 in 1913. He had worked with Hardy and others and presented numerical theories on numbers, which include circle method in number theory, algebra inequalities, elliptical functions etc. He was the second Indian to be elected as a fellow of the Royal Society in 1918. He became the first Indian to be elected as a Fellow of Trinity College, Cambridge. During his illness also he never forgets to think about numbers. He remarked the taxi number of Hardy, 1729 is a singularly unexceptional number. It is the smallest integer that can be represented in two ways by the sum of two cubes; $1729=13+123=93+103$. Unfortunately, due to tuberculosis he died in Madras on April 26, 1920. Government of India recognized him and released a postal stamp and declared 2012 as “Year of Mathematics” on the eve of his 125th birth anniversary.

- T.V. Anudeep Naidu, (II/IV, B.Tech.)

Plants to uncover Landmines

Plants provide us food, fiber, shelter, medicine and fuel. Apart from these there are some advanced technologies of plants which make the earth sustainable. A genetically engineered plant 'Arabidopsis thaliana' which detects landmines in soil by changing color, could prevent thousands of deaths and injuries by signaling where explosives are concealed. This plant is a modified version of 'thale cress'. This plant is sensitive to nitrogen dioxide gas, which is released by underground landmines. The leaves of the plant change their color from green to red after three to five weeks of growth in the presence of this gas and hence easy to spot.

The only shortcoming of this plant is, it is quite shallow-rooted and so will only detect mines near the root surfaces. This technique will be helpful to field tests and scientists have removed the gene for an important and growth hormone for this plant, so that the plant needs a specially designed fertilizer in order to grow.

-G.Suneel, (III/IV, B.Tech.)

Role of Chemical Engineering in Digesting Food

Food enters the mouth and chewing action takes place. The Jaws acts as a 'Jaw crusher' and particle (food) size is reduced. Then these particles are mixed with saliva and enter the food pipe where Epiglottis acts as 'valve'. Through the Epiglottis it enters the stomach where food is allowed to stay for some time and HCl is released and the reaction takes place as that in a batch reactor. After this reaction, Energy is released and blood acts as a 'carrier' and accumulated reaction mass is sent through kidney where useful salts are adsorbed. Kidneys act as a filter which separates the wastes from the body. Wastes are sent out and few of them produced during work are sent out in the form of water and oil through the pores of our skin which acts as a membrane.

-A.Anirudh, (III/IV, B.Tech.)

Quotations Of My Life

We all read or go through many quotations in our life. In my life one of such quotation has taken a quite good role in developing my personality. "Nothing is impossible for a willing heart" it was this quotation which put an end to my stage fright. To say about myself I was good at communicating with others but lack in self-esteem & this was me till my B.Tech. Everything would change with a little step we take to overcome our fears. We have a say "Fear kills more dreams than failure ever will". I still thank my first year CPNM faculty "Krishna Kumari" who helped me to overcome my fears. During the first few days of my B.Tech first year when we just joined in college, to engage ourselves there is a program scheduled "Personality Development Program" in which we are supposed to give a 15 minutes talk on any of the topic of our wish. And it was from then this proverb has become my favorite.

Of course I was the last but one person to give the talk on. I took a case study as said I'm good at speaking so the first 2-3 min of my talk went on well after which over through I was saying something interesting my eyes started counting tiles. In that way I finished my first seminar session. The only comment I received from my faculty was "Out of all your class students you presented your topic well but only thing that is pulling you back is your inferiority complex" she just gave me few suggestions like to look straight on to the walls for the next three and then to the people, don't focus yourself on to a single person as such. Later on, I started participating in many sessions, taking all the suggestions. It was the same myself who grabbed 1st prize in a paper presentation session at Osmania University during my third year. "The fear of facing your fears is harder to overcome than the fear itself". By the way, I did my B.Tech in Vignan's Engineering College, Guntur-best known for its college fest Mahostav.

According to me one can overcome their fears only when they do the thing that scares them the most. I remember a quote saying "Courage doesn't mean you don't get afraid. Courage means you don't let fear stop you".

-Ms.P.Mallika Rani, Assistant Professor

CYANIDE

There are some interesting facts about Cyanide which as a chemical engineer you need to know!

- Cyanide is released from some plants such as cassava, lime, beans, almonds and also in common fruits such as apples and peaches.
- Cyanide is a rapidly acting, potentially deadly chemical that can exist in various forms.
- Smoke from cigarette and plastic when burnt contains traces of Cyanide.
- Cyanide was used in World War-II by Nazi leader Adolf Hitler by the name 'Zyklon-B' as a genocidal agent.
- Cyanide is less dense compared to air; so it will rise.
- Cyanide adversely affects heart and brain than other organs as they utilize more amounts of oxygen.
- Cyanide is also known by the military designations AC (for hydrogen cyanide) and CK (for cyanogens chloride).

-P.Sandeep, (III/IV, B.Tech.)

DREAM SOCIETY

Society, the term meaning varies from place to place. The most generalised meaning is defined as the group of people or family that are habituated in our surrounding. The people who try to impress or live for them are generally known as social animals.

Many people compromise on their dreams due to various reasons and financial problems. The survey says that majority of people in India doesn't fulfil their dreams due to society. Their parents want them to fit in the society which has been following same customs as their ancestors did.

My dream society is that where each and every individual in the society strive hard to achieve their dream. This is what a true dream society is and it is how my dream society I dreamt to be

-Ashifa.B, (III/IV, B.Tech.)

COST OF HUNGER

Once there lived a king named Rahim. Rahim was always fascinated towards food which portrays him to be greedy and a discontented man who loved to eat. He was never satisfied with what his servants made and always anticipated for something more but each time the thread fell short.

The king, engrossed by this, called his men to organize a competition in which the one who cooks the best food and makes the king happy would be promised to be his cook further. Consequently, Akhil a farmer who also works in an eatery astonishes the king and there by becomes the cook. The king loved Akhil's fabulous cooking and Akhil always found joy in cooking.

Once it happened when Akhil couldn't find anything to cook and ended up making onion soup .Rahim disliked the soup and was furious with him. As days passed, the king along with his men and the chef was out for hunting in a jungle. Suddenly a storm came up and the king along with the chef gets lost from the men. Two days have passed without food and the uninvited ill took the last drop of energy for him. The pangs of hunger banished the entire bright outlook of the king .On their way, they come across few onion plants and the king appeals the chef to cook something perfect enough to quench his hunger .Akhil boils the same onion soup to which he was chided for. The king engulfs the plump of the soup and sings praises for it. Later, Rahim gets to know from the chef that it was the same soup due to which he was furious with him. Nothing could quench his hunger at that time and he regrets for being so foolish.



If more of us valued food and cheer and song above hoarded gold, it would be a merrier world. It's high time that we realize that "The cost of food in the kingdom is hunger for the bread of life". And it's better to be satisfied of what you are.....what you have.....and what you got.

-J.Sasidhar, (IV/IV, B.Tech)

ALUMNI BYTE



S V A S KRISHNA KUMAR
(2015-2019)

My heart feels miserable to say that my time at ANITS had concluded, leaving all good memories and some gloomy ones. I would like to take this as an opportunity to thank my esteemed teachers and beloved friends of this institution who took an immense position in paving a path for my career and developing personally as well as professionally. My teachers were with me even in dark times and helped me to overcome them. Every individual who graduated is like the sunset in the dusk and the later phase of his is life like the sun rising in the dawn where he shines throughout.

A word for my successors at ANITS is just cherish the moment while you are in the college and live in the moments later on memorizing them. Finally I feel proud to say that I'm an ANITIAN

When I joined ANITS I had no idea what was next in line for me. I always thought my professors would pave me a path that I could just walk and get on with life. But as time passed I realised they would show me things that were always there but I never realised. They told me things I could do, places I could get to and what all I could be. But the catch was that the choice was always mine. I could be whatever I wanted to, I've just been shown a whole new world of possibilities that I never knew existed

I was a little naïve to say the least when I joined, four years later I can now say I've learned a lot of things that you would've probably never realised had I never joined. The most important part of college would always be the company. I've made some friends that taught me a lot about life. Of course there have always been consequences of having too much fun but it comes as a package



V.V.S.Karthik
(2015-2019)

I am always thankful to be alumni of chemical engineering department. College life is one of those experiences you would most likely never forget and being a part of chemical family has enriched my life with knowledge experience and memories. I would forever be thankful to all the faculty, friends, my juniors for the wonderful journey I had. If today I'm confident in what I do then that would be the reflection of things I learnt in the past.

A small word to all the juniors and people willing to take Chemical, this is going to be the most beautiful journey in your life, enjoy and learn to the fullest.



Hasmita Toholo
(2014-2018)

ALUMNI BYTE



P.Sai Sudha
(2014-2018)

The four years of my time in ANITS was one of the memorable experiences of my life. This journey has taught me how to face challenges and move forward. I was a total stranger when I came in but on the last day I was the happiest one with a bunch of friends. I learnt that one should actively participate in extra-curricular activities and should have social responsibility.

I thank all my professors who gave their immense knowledge. Their constant support boosted up my confidence. ANITS helped me to overcome my fears and taught me lead a successful life.

One of the most interesting stages in life that gives you an opportunity to explore is the college life'. My days at chemical engineering department in ANITS college are precious memories it might be good, it might be bad, it might be wired, and it might not interest you, but expect anything to happen.....it is a perfect blend of joy and hardships....College made me the person who I am today.....Bold and Confident!!....I thank all the faculty members for not only helped me to score good marks, but also helped me to overcome the flaws in becoming a good person.



Vara Lakshmi Kanchipati
(2015-2019)

I must say, staying in college isn't easy as it looks. I now understand the importance of education. Some people might say that studying is a boring activity; well in fact, studying is the best way to nurture yourself with experiences that others cannot just steal them away from you. Education is something others should be proud of. I am blessed because I was able to enter an institution where I could enhance my skills and practice it inside and outside the boundaries of the college.



Raveendra Upadhyayula
(2015-2019)

When I entered college, my life wasn't the same I had during my intermediate days. I learned to be flexible – learning to manage my time with my schedules, commitments, appointments, priorities and other activities. Most of the time, I was cramming – with my projects and homework as well. That was the time I started to realize the importance of every minute I am spending.

B.Tech. Life

The most crucial part of a person's life is the B. Tech life. This is the life where everyone experiences a lot of ups and downs and also learns how to deal with them. B. Tech College is the best place to find the true friends. All of us have friends since our schooling to graduation, but only the graduation friends are those who are loyal to us for our whole life. B. Tech life is very strict but sometimes too liberal. There are friendly professors to guide us in the right way to achieve our dreams. I just feel like I joined the college a few days back and now I am already graduating -how time flies. I think our department is the warmest and also really a family where people quarrel between themselves but when it comes to the pride of the department every one is on one word. That is the thing which makes me proudly say that I am a chemical engineering student. I would like to give an example for it. The best example is the department tech-fest, it's the pride of our department and to make it successful everyone is working very hard. In this type of situations, we even talk to whom we never talk although by spending four years in the same room. This is possible only in graduation because neither before graduation nor after it we will be like we are now. In this period of life we enjoy with friends, we get to know a new word called responsibility.

Also, most exciting part of this graduation life is living in hostels. At the start of each year we get new roommates, new lessons and new friends. We will be thinking at the end of each year that who might be my next year roommates, will I be able to adjust with them, will the hostel food at least change next year, will the menu will change or not etc., At the start of my first year I thought that I need to study for another 4 years to face the real world and chase my dreams but once we enter the graduation it means we have already entered the real world. Although we are guarded by our professors but they just give us lessons how to go on in the further life. I would like to thank all my professors, my friends for accompanying me in this crucial part of my life. Dear friends, I will remember you guys and also all the moments cherished with you thought my life. I will treasure them. Thank you, my dear professors, for guiding me in right way. Thank you Chemical Engineering Department for making me a part of this family

-R.N.K. Keerthana, (IV/IV, B.Tech.)

తెలుగు వెలుగు

చీకటిలో సొగలేక వెలుగు కోసం పరుగులు పెడుతున్నావు
చీకటి అంటే భయమా లేక వెలుగు అంటే ఇష్టమా
వెలుగు నీకు అవసరమా లేక ఆడంబరమా
వెలుగు లేకపోవడాన్ని నువ్వు ఊహించగలవా....
చీకటిలో ఉన్నప్పుడు నువ్వు దేవుని దీపం
ఇవ్వమని అడుగుతున్నవా లేక దైర్యం
ఇవ్వమని అడుగుతున్నవా.....

ఇది నిశబ్దంతో చేసే మాటల యుద్ధం....
ఇది వంటరిగా గెలుపు లేదని తెలిసి చేసే యుద్ధం
గెలుపు దీని ఉద్దేశం కాదు ఓశని వుండదు
ఎలాగూ ఆనందపు ఊహ లేదు కాబట్టి బాధ పడాల్సిన
అవసరం కుడా లేదు
లేని దానిని ప్రేమిస్తూ అందరిలో వున్న
వంటరిగా బ్రతికే మొందితనం
లేదని తెలిసిన వెతికే పిచ్చితనం
అమవాస్య రోజున చందమామను వెతికే వెర్రితనం
ప్రేమను ఎందులో దాయలో తెలియక నిశబ్దంలో దాచి
మట్టిచేసి నవ్వే అమాయకత్వం
లేని యుద్ధం ఇది పిచ్చి ప్రేమపై అసమర్థ యుద్ధం
ఇది నా యుద్ధం

-Md.Subhani(IV/IV ,B.Tech)

ప్రేమ పిచ్చిదని తెలుసుకున్నా
మరి పువ్వుకి అవరైనా పువ్వు ఇస్తారా
ఎదిగే పచ్చని చెట్టున్న ప్రేమ దాని వ్రేళ్లను
పట్టుకుని వేళాడుతుంది ఈ భూమి
ఎదిరించే నీ అందాన్ని స్వప్నంలోనైనా
చూడాలనుకున్నా
మృదువైనా నీ చేయి పట్టుకుని
జగమంతాపయనిస్తాను

-M.Ganapathi (IV/IV ,B.Tech)

INNER FEELZ

Son: " They Murred, They Whispered,
They Rumoured about me...."

Mother: " But, Remember they couldn't
talk about you...."

— Anudeep



The night is dark and quiet

Cause
It Remains that you are Alone
Cause
It Remains that it was Colorful
Cause
It Remains about the Questions
That Answers
The Pain in the Isolation
The Thoughts in the Lonliness
That Makes
Darkness colourful and
Quietness loud
Which are visible and
Audible only to you



YOU

I have paused my thoughts
I have muted my saying
I have ceased my feeling
I have stopped my waiting
But
I have not left my pulse that works on
you....

— Anudeep



The Society cried
The Family cried
The He cried
The She cried
Not for the same
But
Hoping for Peace
Hoping for Needs
Hoping for His Dreams
Hoping for Her Cover

— Anudeep



When I lost

The Feelings in Emotions
The Love in Care
I just Move for a while
And then Return Back
In search of them
To get back
But I realise that they are Temporary with Them while I
felt it was Permanent



*From the darkness to light
From My Enthusiasm to Calm
From My Anger to Joy
From My Nothing to Something
From Me as Myself to You
For the Days, For the Years
Forever in You*

— Anudeep



They like you when they need you
But they deserve you when you need
them...

— Anudeep



You are like that book which
Hides It's Words
Through The Pages
That are Covered through a Jacket
Where The Words are Your Laugh
Where The Pages are Your Voice
While the Jacket is Your Soul
That Could Be Read By Me
Who Was it's Writer

— Anudeep



Sometimes, life slaps me on my face.

I Wish That It Was A Memory
I Wish That It Would Last Long
I Wish That It Will Put Me on
A Walk To The End
That Repairs
That Bears
That Relives
The Pain
Not The Reason



-T.V.ANUDEEP NAIDU

STILL COUNTING



H. Tanuj Srikanth

I never used to think about any interview as I was under the impression that I wouldn't be eligible at first. But with some miracle and a teensy bit of preparation, I passed the written test and I was about to face my first interview ever of the Infosys company. The interview was the following day and I was most of the time held up with gathering required documents and making my appearance look formal with trimmed beard and ironed clothes. I took a good night's sleep and woke up with full enthusiasm and reached the place on time. My fellow friends are being interviewed and they came out gossiping about how it went

inside. After hearing various perspectives I was frightened a little. But there is no reason to. When my time came I took some deep breaths and thought that I should give my best shot and shouldn't blow it by panicking. Panic is monster which gives you only fear and nothing else useful. To my surprise the interview went really well. I answered the questions to the point. No more, no less. I came out and I was peaceful. I didn't worry about the results as we can't stop anything from happening. A few days later the results were out and I got the job. When the results are fruitful you'll forget all the hardship you've done to achieve success. When facing an interview you know everything you need to know. It's just a matter of presenting yourself with courage at the right time.

After hours of rigorous preparation and brain storming sessions, it was the D-day for my first ever professional interview. It was for one of the leading IT giant in the country "Infosys". Just before my interview I started feeling a bit nervous and I said to myself that this is no time for panicking and assured myself that I will remain calm whatever the situation might be.



S. Manikanta

After I stepped into the interview room I was confident that 'I'm going to get this'. Luckily, the interviewer was in a good space of mind and he posted me several technical questions relating to distillation column and Chemical Reaction Engineering, I answered those questions confidently and the interviewer was satisfied with my answers. In the end he asked me the most anticipated question "why would you want to join in software sector leaving your core?" To which I had my answer and interviewer looked satisfied with the way I dealt with the question. This experience has given me lot of confidence to achieve greater heights in my career.

STILL COUNTING



Ch. Sai Kiran

I would like to share my first interview experience. My first interview is with Infosys. I worked hard for this placement. My college gave us two weeks of training. I acquired all the skills required for the job and had undergone rigorous preparation. There are nearly four hundred students who were eligible for the first round. The major screening was done in initial round which tested our Quantitative and verbal aptitude skills along with Reasoning. People who cleared the first round were called for Hr interview. Thanks to the efforts I put in I was called for the HR

interview round. With loads of confidence, I stepped into the interview room and was able to answer those questions posted by them accurately. The interviewer seemed satisfied with my performance and as a result I found my name in the final list of selected candidates. The message I could give my peers is we should follow our process and not worry about the result, the sincerity you show in your process yields desired results.

I would like to share my first interview experience. It was with a multi-national company. There were many stages in this process of recruitment. The first stage is aptitude/logical/essay writing test, if you qualify in this then you would be allowed for next round which is pseudo-code later subsequently followed by technical interview then human resource.

I started preparing for the exam before one week and was very tensed because it was my dream company (Infosys) and it's an on campus drive. I had developed confidence on

my-self after rigorous practice daily. The most awaited day has come which was the day we were waiting for. The drive was conducted on time and the results were out on that day it-self. We were happy to see our names in the list. In conclusion, hard work pays off one day or the other be patience till that day come.



V. Madhavi Latha

In my first professional interview I was not under any sort of pressure and was confident. It is majorly because of my mock interview which was conducted by our faculty the day before the Infosys campus drive. The feedback given by our faculty enhanced my confidence and I was excited to face my interview. My interview started with frequent questions like "Tell me about you" and interviewer was aware that we are from non-technical

didn't focus on software topics. The only thing he asked me was about my core subjects. The take away message from my interview is there should always be a bright smile on your face during the interview, which shows your willingness towards the interview.



V. Uday Kiran

STILL COUNTING



R.N.K. Keerthana

Deccan Fine Chemicals is the first interview I attended. We are given a speech about the company first and we are asked to get our certificates verified. There are about fifty people attending the interview. I had a cold foot. Until the moment I enter the interview cell I blanked out. As soon as I entered two HR sitting in front of me. One of them observed my gestures during the interview and the other person tested my overall technical knowledge. They asked about my family, my interests and hobbies. Also why did I choose this company? They asked me if I get a job will I be able to work with my full potential and if necessary, relocate myself. I

answered the questions positively without any fear. My first experience in the interview was good and I attended my second interview with the same confidence.

Was overwhelmed! , When my name was listed for the Technical HR Interview. Though the initial screening (i.e. GD AND HR Interview) were good. But the major challenge was to travel to Vadodara, Gujarat for the Final Interview that too no one to accompany me. Motivated through Mr. Shiva Naresh sir words, made up my mind to give it a shot.

The D- day arrived; I realized that no amount of preparation was enough for an Interview. Calmed my demure and tried to answer the questions of the Interviewer with my wit and spontaneity. My Interviewer had a really cool and class attitude which led me to express myself freely. The questions comprised of both technical and non-technical, tried my best to answer them. Overall the hospitality at Torrecid was great.



Shorab Mallo

I am interested in studying further instead of doing a job so I felt that it would be nice if I got placed in any one company in my B.Tech. life so as to lift my spirits and prove myself to my parents. So the first opportunity I got is the Infosys Company in which I failed to qualify the entrance exam. So I lost the chance I got and thought that I shouldn't let the next chance slip away. The next chance in my way is the Deccan Fine Chemicals. Luckily I have a good CGPA and good knowledge on the questions I faced in the interview, there were two interviewers one of which asked me questions and the other observed my

behavior. They asked questions about my favorite subject C.R.E and I answered them to the point and they got impressed. Finally I thanked them and left. After a month later while I was attending the MAT LAB workshop, I was called aside by our Pradeep Santosh Sir to inform that I was selected to the company, my heart was filled with happiness and I thanked him of such great news. I have experienced a certain type of joy that I have never felt it before.

Vivek Inna



STILL COUNTING



P. Poorna Chandrasekar

27th September 2019, I still remember that day. That's the day I attended the written exam for Infosys campus drive. I had given my best that day but not sure about the results. Its 7:00 PM, I'm roaming on the road unaware of that results were out. Suddenly my mobile was ringing, it was HOD sir I didn't expect sir to call me at that time. Thinking about various reasons I attended the call and the first sentence sir said was "Congratulation Sekar, well done." With this one sentence I understood the matter. I'm very happy not only because I was selected to next round but also that I came to know this

through my faculty. I had no words to say except "thanks a lot sir" with great happiness. Then sir gave me some suggestions and instructions for attending the interview. I hang the call with happiness and called my parents to share the matter. They were very happy about that which makes me even happier.

28th September 2019, I came to the college to share my happiness with everyone. All my classmates and faculty are happy to hear that and congratulated me and gave their suggestions. Later my faculty along called me along with my 6 friends who were also selected and gave some tips and conducted a mock interview to build our confidence.

29th September 2019, finally the day had come. It's my first interview that day. I was a bit tensed and sweating heavily. My BIL was with me and he was also attending the interview with me. He was so cool. He cooled me and encouraged me to relive my tension. Finally after all the procedure is completed they called me to the panel room for interview. I closed my eyes for once and tried to show the confidence in my face and entered the room. Interviewer with a smile offered me the seat to sit. I sat and the final part started. He asked about me, why Infosys, about my intern, project and few C programming questions. I answered every question honestly. The interview was completed and I came out. The results were out in the evening and I was selected. This time it's my turn to share the news with sir, so I called him and informed sir. Sir was very happy. Later I shared with my parents and friends, they were the happiest.

I had carried this feel and confidence to my next interview also. I thank each and everyone who supported me during this phase of my life.

SKETCH ZONE

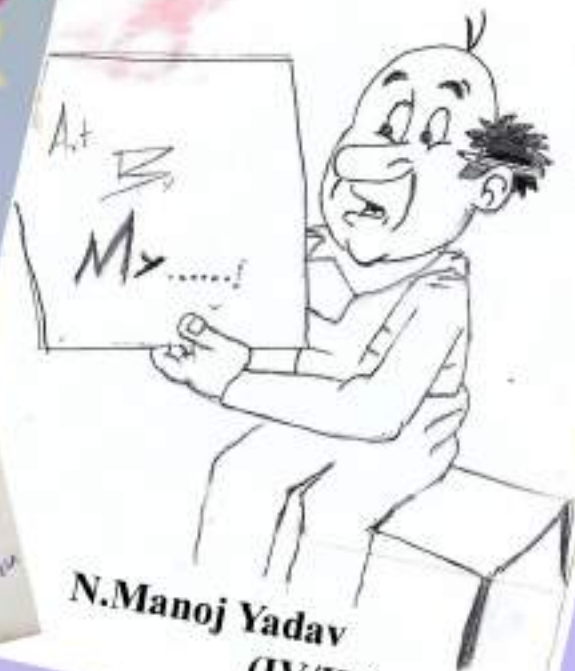


K.Tejaswi(II/IV)



Roshan(I/IV)

Appalnarsayya
(IV/IV)



N.Manoj Yadav
(IV/IV)

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A small idea to spread knowledge and wisdom along with bringing out the inner talents of the students gave birth to RASAGYAN. It is the first ever departmental magazine in the history of ANITS.

Our Motive for a Better World , Our Motive for a Prosperous Society , Our Motive for a New Generation which seeks :

1. To Enshrine The Hidden and Extract the Existing Creativity among the Energetic Minds.
2. To Enrich Analytical, Thinking, and Writing Proficiencies.
3. To find Research Oriented Minds, For a Better World.
4. To bring Awareness about what's going on in and around our campus.

There are no restrictions for writing articles. It is not necessary that the articles should be related to

any particular field. We accept vibrant range of themes. Articles related to our department and current affairs are given more preference. We do not limit ourselves. We accept poems, paintings, art and photography from the students.



Shout back at us

We would like to know more about what our readers think for where we should land and where we should meet in our magazine. Please feel free to chip in your ideas, queries, complaints, compliments, suggestions and words that help us to get as a feedback to this edition of magazine. Help us to improve, help us to stand for our improvement. Write to us at the mentioned mail address and please support us. Thank you for sparing your time with us!

Send your own articles, photographs, poetry, cartoons, short stories, humorous content, drawing and painting or anything else that you would like, that could be portrayed through us in this magazine to the mentioned mail address or submit it to any of the editorial team members.

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