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From Team Cognizance

Dear Reader

I feel extremely delighted to present to you the first edition of our magazine Cognizance (the official magazine of IEEE – HKN, Lambda-Eta Chapter). A college magazine, like any other news magazine, is not a perishable product; it is rather a result of dedicated and committed efforts of the students. Through this magazine, the readers can know and analyze the hobbies and areas of interest of the students in the college as a part of their creativity during their academic pursuits.

IEEE-Eta Kappa Nu (IEEE-HKN) is a unique membership organization dedicated to encouraging and recognizing excellence in the IEEE -designed fields of interest. These include: Engineering, Computer Sciences and Information Technology, Physical Sciences, Biological and Medical Sciences, Mathematics, Technical Communications, Education, Management, Law and Policy. Members consist of students, alumni, and other professionals who have demonstrated exceptional academic and professional accomplishments. It currently comprises nearly 200 university chapters, a variety of committees, many active member volunteers, and thousands of student members.

The Student Branch at BVCOE has, since its inception, aimed at promoting IEEE among students as a common platform to share their technical perspective through interactive sessions. Our endeavor is to harness the boundless youth potential and create a rich pool of technical expertise.

Our efforts have been to include enough articles, endowed with variety of subjects, in this magazine. I feel delighted to place on record that we have sustained in incorporating good and inspiring articles. I sincerely thank the readers for sparing some part of their time for reading the magazine. I would also like to thank our sponsor 'Divine Institute of Professional Studies' for their continued co-operation with us. We hope to build a strong and healthy relationship in the future.

I would also like to express my deep gratitude to Mr. Rahul Bahl for his continued support.

Suggestions for improvement in the magazine and feedback in any other form would be highly acknowledged.

I extend my sincere thanks to the entire team of Cognizance for their constant exertion and support in bringing out the magazine in the present form.



Wassup Gamers!!! COGNIZANCE is onto a next level so to keep in pace with the new MAGAZINE I am taking this column to a different dimension. I hope till now you have enjoyed the column, I am pleased with your support and response. So let's begin with my usual column.



DEVELOPERS: IRRATIONAL GAMES, 2K GAMES
PLATFORMS: PLAY STATION3, XBOX 360, WINDOWS
GENRE: F.P.S (first person shooter)

This masterpiece was released in the month of March this year, its late for a review but a game like BioShock Infinite is worth a cognizance column. When I finished BioShock Infinite – don't worry, I won't spoil anything. I experienced a kind of excited panic, then total delight, then momentary confusion and then a rush of extraordinary sights, powerful scenes and sudden twists that left me struggling to keep up.

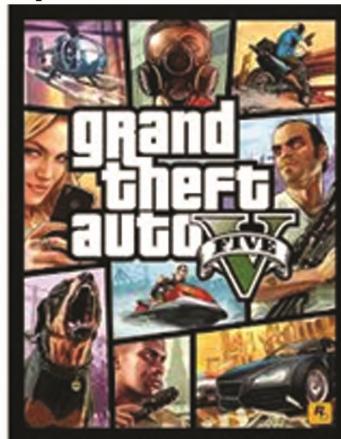
BioShock Infinite begins at a lighthouse. We've been here before, but not like this. You're left at the stairs; you make your way up through a dark, grimy tower. There's a man with a bag over his head, slumped and dead. There's a note on his face:

"Don't disappoint us." You get in a chair and blast into the sky and then you reach the city of Columbia.

Columbia is a floating city ruled by a man named Comstock, more commonly known as "the Prophet," and its intended inhabitants worship America's founding fathers as if they were gods themselves. Your main objective is to find and save the girl Elizabeth, but you are not sure why you are trying to save her?

That's enough info from my side..i don't want to spoil your game, but trust me its end is amazing...

Grand Theft Auto V – THE MOTHER OF ALL GTAs
 ROCKSTAR GAMES
 September 17



14
IS COMING



ALL THOSE WHO WANT TO PRE-ORDER THEM LOG ON TO www.flipkart.com

NOW THE NEXT LEVEL THING



Especially for the windows gamers, experience these awesome games with the best quality and with the best graphic card. Here are my two options:

SAPPHIRE AMD/ATI RADEON HD 6670 1 GB DDR3 GRAPHICS CARD

Key features:

- 800 MHz GPU Clock Speed
- PCI-E 2.1 Bus Standard
- Shader Version 5.0
- 1 GB DDR3 Memory
- AMD 3D Vision Support
- 2560 x 1600 Maximum Digital Resolution
- 2560 x 1600 Maximum Digital Resolution

KEY FEATURES OF SAPPHIRE AMD/ATI RADEON HD 5670 1 GB GDDR5 GRAPHICS CARD

Key features:

- 775 MHz GPU Clock Speed
- PCI Express 2.0 Bus Standard
- Shader Version 5.0
- 1 GB GDDR5 Memory
- 2560 x 1600 Maximum Digital Resolution
- 400 W Power Supply Required
- AMD/ATI Radeon HD 5670

My vote goes to ATI 6670!!

high on sports



HIGH-VOLTAGE ACTION: A GUIDE TO THE MAJOR SPORTING

We bring to you a list of all the important sporting action happening over the next few months. Pick your sport, browse through the list of tournaments and mark your calendars!

CRICKET (Because we Indians can't get enough of it, can we?):

17th September- 6th October: Champions League Twenty20 2013, India

10th October- 2nd November: Australia tour of India 2013 (1 T20, 7 ODIs)



TENNIS (Because Federer fanatics like me are in plenty!):

6TH October- 13th October: Shanghai Rolex Masters- Shanghai, China (Hard Court)

22nd October- 27TH October: BNP Paribas WTA Championships- Istanbul, Turkey (Hard Court)



FORMULA ONE (Don't tell me it's going to be Vettel again!):

6th October: Korean Grand Prix, Korea International Circuit

13th October: Japanese Grand Prix, Suzuka Circuit

27th October: Airtel Indian Grand Prix, Buddh International Circuit

FOOTBALL:

Since the number of games are aplenty and space less, we list the big fixtures in August, September and October that promise to deliver in quality and keep you on the edge of your seats!

Barclays Premier League:

26th October: Chelsea v Manchester City, Liverpool v West Bromwich Albion

Spanish La Liga:

19th October: Valencia v Real Sociedad, Real Madrid v Malaga

26th October: Barcelona v Real Madrid

Bundesliga:

26th October: Borussia Dortmund v Schalke 04

Serie A:

22nd September: Milan v Napoli

6th October: Juventus v Milan, Inter v Roma

20th October: Fiorentina v Juventus



NVIDIA SHIELD

- it isn't a Handheld Xbox

There ain't no age of gaming.. I guess most people that look at me wouldn't guess that behind closed doors I'm likely to be found yelling at my screen, controller in hand, completely lost in battle. I'm a huge fan of first person shooter games, and dabble in just about anything else that even looks remotely entertaining. Yup, I'm addicted.

Xbox, Playstation, Wii (gasp!), have checked them all, but what about handhelds, shouldn't they have a place in our hearts by now? Check out Nvidia's Shield, a brand new handheld console, that at first glance, looks surprisingly like an Xbox controller. This handheld has a 5-inch attached multi-touch flip screen, is Wi-Fi enabled, has high quality speakers and it runs on, um... Android? Okay, in all fairness, the Shield ships with access to Google Play and Sonic 4, TegraZone, Rearmed and some other stuff like Hulu Plus. It also allows some Windows games running on a compatible PC to stream to your device via your local network. But I ask you all, is it enough?

The Nvidia Shield comes with a pretty hefty price tag, but I'm not exactly sure where the Shield fits in. There are certainly cheaper dedicated handhelds like the Vita, we already had Sony's Remote Play and we run Android on our phones. I'm also not sure if or not I love the analog joystick placement, and yet, why do I feel like I must have one?

So, if you find yourself similarly inclined, and a 350 dollar price tag doesn't deter you, Nvidia has already started taking pre-orders for the Shield with what is expected to be a June release date. I don't expect there will be a huge rush to the stores, but just maybe the Nvidia Shield will bring Android gaming to the next level... what do you think?

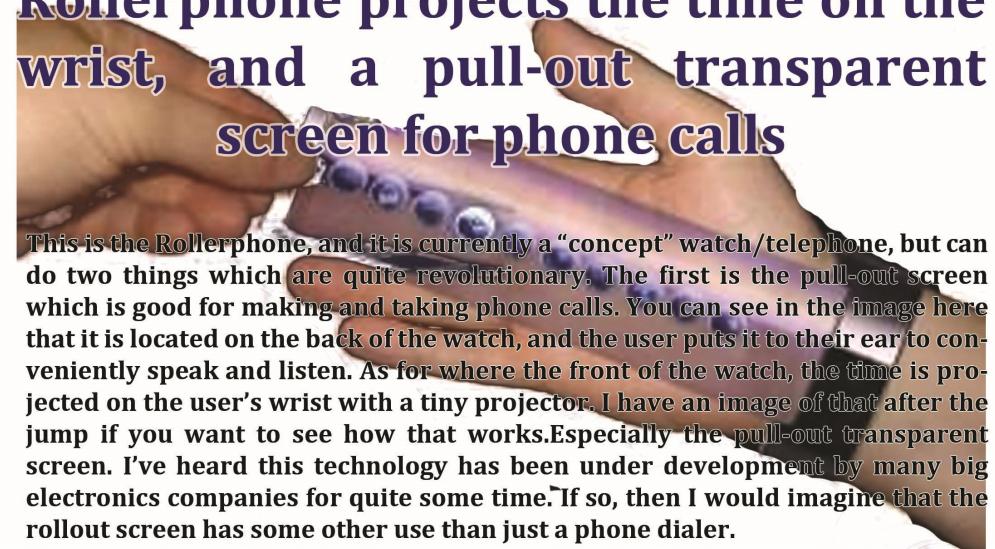


"Sound Band lets you listen to music, and still hear the world around you"



There are plenty of times when you want to listen to music, but you don't want to disturb the people around you. This, of course, is why things like headphones and earbuds were invented. However, by design, there are situations where you simply cannot use them safely. These are times when you need to still be able to hear the world around you, such as when you're riding a bike. What you need is a way to privately listen to music that will still let you hear your surroundings. Sound Band is a new headset that is aimed to deliver audio into your head, without covering your ears, and blocking out other sounds. The Sound Band will connect wirelessly to your music player via Bluetooth, meaning that you won't need to bother with long messy cables. Unfortunately, this does mean that they will need recharging after roughly 5 hours of use. The Kickstarter fund has already surpassed its goal in just a few short days, but you can still pledge \$125 and get your own set when they ship out in December.

Rollerphone projects the time on the wrist, and a pull-out transparent screen for phone calls



This is the Rollerphone, and it is currently a "concept" watch/telephone, but can do two things which are quite revolutionary. The first is the pull-out screen which is good for making and taking phone calls. You can see in the image here that it is located on the back of the watch, and the user puts it to their ear to conveniently speak and listen. As for where the front of the watch, the time is projected on the user's wrist with a tiny projector. I have an image of that after the jump if you want to see how that works. Especially the pull-out transparent screen. I've heard this technology has been under development by many big electronics companies for quite some time. If so, then I would imagine that the rollout screen has some other use than just a phone dialer.

Yes, once those rollout display screens get developed, then we will see a lot of technology that will be similar to the Rollerphone. Of course, this is really just a concept, at least for now.

NOT SO POLITICAL

BEGINNING OF A SPLITTING HEADACHE

A day after India's ruling Congress party-led United Progressive Alliance coalition unanimously agreed to the formation of Telangana state, which will be carved out from Andhra Pradesh in South India, demands for separate states from other parts of the country intensified. Telangana will be India's 29th state, with Hyderabad shared with Andhra Pradesh as the common capital for 10 years. The movement for a separate Telangana state has been going on for decades.

Since the decision to bifurcate Andhra Pradesh, demands for formation of smaller states have risen from many parts of India — Bodoland in Assam, Mithila in Bihar, Gorkhaland in West Bengal, Coorg in Karnataka, Jammu in Jammu and Kashmir, Vidarbha in Maharashtra, and Harit Pradesh, Bundelkhand and Poorvanchal in Uttar Pradesh.

In India, reorganisation of states on linguistic lines after independence was a defining moment. Unlike partition on the basis of religion, the reorganisation of states saw no large scale dislocation of people as people speaking a common language, as is only natural, live in a geographical contiguous area.

The constitutional provision enabling the government to create new states has led to many nationalist as well as sub-nationalist movements. The ability of the Indian government to create new states has allowed it to accommodate regional demands and regional aspirations in a way that helps India to stay together. But the new statehood demand should not be fulfilled, just for sake of political benefits. Sometimes the formation of new states may lead to religious, communal violence and displacement of many people as was seen during the partition era. The State Reorganization Commission set up in 1953 to demarcate the boundaries of states, refused to go by a single test of either language or culture and suggested new

states to be large enough to ensure administrative efficiency and the coordination of economic development. Congress led UPA coalition is addressing various demands for separate statehoods and is considering forming another State Reorganization Commission.

In the run-up to the parliamentary elections, there are political and electoral reasons why other statehood demands might gain some traction. These issues could well be an important part of the bargain in coalition formation after the elections. The Congress agreed to create Telangana in the hope that it would be able to secure most of that region's 17 parliamentary seats in the next election, either directly or through an alliance with the local political party that has led the agitation for statehood. As the electoral contest heats up, Congress, facing much disillusionment over its record in office, may feel that it could reap dividends by supporting demands for other would-be states, and the agitators behind them.

But fulfilment of these separate statehood demands may lead to instability in the unity and integrity at localized as well as national levels. Statehood formation on religious or linguistic basis may end up forming 50 states in India considering the present day requests. Theoretically, demands for new states are as valid as any nationalist project. What is really important, then, is that the new states should neither result in internal displacement of people nor should they disturb the peace and integrity. The state should be formed keeping in mind the political stability and the scope for smooth administration in the future. The political legitimacy of a people's right to self-determination, in whatever form, comes from universal, inalienable human rights. And, almost by definition, it is acceptable only as long as it does not infringe on the similar right of another people.

Do the Maths win the cash

1. How many rectangles on a chess board (8x8) are not squares?
1) 1296 2) 1192 3) 1092 4) 1002
 2. How many numbers between 1000 and 1200 that have all odd digits are divisible by 3?
1) 8 2) 9 3) 10 4) 11
 3. If $\log 2=0.3010$ and $\log 3=0.4771$ then find the number of digits in 6^{20}
1) 15 2) 16 3) 17 4) 18
 4. In a 100m race A beats B by 20m and B beats C by 10m, then by how much distance A will beat C in the same race?
1) 30m 2) 25m 3) 28m 4) 32m
 5. A 3-digit number 4a3 is added to another 3 digit number 984 and gives a 4 digit number 13b7, which is divisible by 11. Then a+b is
1) 10 2) 11 3) 12 4) 13
 6. A number N when multiplied by 7 gives another number which is made up of 6s only. Find the sum of all the digits of number N
1) 29 2) 27 3) 25 4) 31
 7. There are two numbers such that, if both of them are individually increased by 5 and then by the same percentage as they were increased in the first instance, each would result in 36. Find the difference between the two numbers
1) 32 2) 24 3) 18 4) 30
 8. What digit does 'a' represent, if
 $351! = 10333147966386144929 \times 66651337523200000000$
1) 4 2) 8 3) 6 4) 2
- Direction for questions 9 & 10:
The first 'X' natural number are written on a sheet of paper. I erase one of the numbers and the product of the remaining numbers end with 14 consecutive zeroes.
9. Which of the following can be the maximum value of 'X'?
1) 64 2) 79 3) 69 4) 74
 10. Which of the following can be the minimum value of 'X'?
1) 64 2) 59 3) 60 4) 54



"Photography" is derived from the Greek words "photos" (light) and "graphein" (to draw). The word was first used by the scientist Sir John F.W. Herschel in 1839. It is a method of recording images by the action of light, or related radiation, on a sensitive material. On a summer day in 1827, Joseph Nicéphore Niépce made the first photographic image with a camera obscura.

Technical point of Cameras: Minimum acceptable 6 Megapixel DSLR with image capture in Raw mode. Preferred 10-15 Megapixel or more, uncompressed TIFFs or JPEGs files saved at highest quality settings and with alpha-numeric file names ending in jpeg, RGB files. Digital single-lens reflex cameras (also called digital SLR or DSLR) are digital cameras combining the optics and the mechanisms of a single-lens reflex camera with a digital imaging sensor, as opposed to photographic film. The reflex design scheme is the primary difference between a DSLR and other digital cameras. In the reflex design, light travels through the lens, then to a mirror that alternates to send the image to either the viewfinder or the image sensor. Shoot in RAW mode for maximum control in post-processing. If shooting in JPEG, always use the 'Fine' setting. Capture images on as low an ISO setting as possible. Turn off in-camera sharpening. Unsharp mask filters should only be applied in amount: 0-100%, Radius: 1-2 pixels, Threshold: 0-4 etc.



Features seen in DSLR designs-

Mode dial :Digital SLR cameras, along with most other digital cameras, generally have a mode dial to access standard camera settings or automatic scene-mode settings. Sometimes called a "PASM" dial, they typically provide as minimum Program, Aperture-priority, Shutter-priority, and full Manual modes. Scene modes vary and are inherently less customizable. They often include full-auto, landscape, portrait, action, macro, and night modes, among others. Professional DSLRs seldom contain automatic scene modes.

Interchangeable lenses: The ability to exchange lenses, to select the best lens for the current photographic need, and to allow the attachment of specialized lenses, is one of the key factors in the popularity of DSLR cameras; although this feature is not unique to the DSLR design and mirrorless interchangeable lens cameras are becoming increasingly popular. Interchangeable lenses for SLRs and DSLRs (also known as "Glass") are built to operate correctly with a specific lens mount that is generally unique to each brand.

HD video capture: In capturing HD video, HDSLRs in general use the full imager area, though not all pixels, causing video artifacts to some extent. Compared to the much smaller image sensors found in the typical camcorder, the HDSLR's much larger sensor yields distinctly different image characteristics. HDSLRs can achieve much shallower depth of field and superior low-light performance.

Live preview: . Live preview is useful in situations where the camera's eye-level viewfinder cannot be used; such as underwater photography, where the camera is enclosed in a plastic waterproof case. A new feature via a separate software package introduced from Breeze Systems in October 2007, features live view from a distance.

Larger sensor sizes and better image quality: Image sensors used in DSLRs come in a range of sizes. The largest are the ones used in "medium format" cameras, typically via a "digital back" which can be used as an alternative to a film back.

Depth-of-field control: The lenses typically used in DSLRs have a wider range of apertures available to them, ranging from as large as f/1.0 to about f/32. Lenses for smaller sensor cameras rarely have true available aperture sizes much larger than f/2.8 or much smaller than f/5.6. To help extend the exposure range, some smaller sensor cameras will also incorporate an ND filter pack into the aperture mechanism. The apertures that smaller sensor cameras have available, give much more depth of field than equivalent angles of view on a DSLR.

Market share

The DSLR market is dominated by Japanese companies and the top five manufacturers are Japanese: Canon, Nikon, Olympus, Pentax, and Sony. Other manufacturers of DSLRs include Mamiya, Sigma, Leica (German), and Hasselblad (Swedish).

DSLR compared to other digital cameras-

The reflex design scheme is the primary difference between a DSLR and other digital cameras. In the reflex design scheme, the image captured on the camera's sensor is also the image that is seen through the viewfinder.

Present-day models: Pentax K-5, Canon EOS 600 APS-C, Nikon D3S full frame(FX), Sony Alpha 99, Nikon D600, Nikon D800, Canon 1Dx.

movie review

MOVIES TO WATCH OUT FOR

CHENNAI EXPRESS

CAST: Shah Rukh Khan, Deepika Padukone.

RATING: *** ½

There is something about Rohit Shetty and his films which is mostly absent from other noticeable directors. From the Khans to the Kumars, every actor, every director has tried their hands in comedy. Some try double meaning stuff, some of them are too 'adult' to be enjoyed, and some are genuinely lame. Apart from one or two hits, no one has ever been able to maintain the consistency. And that's the reason I say, there is something unique about this man!

From the makers of Golmaal, All The Best and Bol Bachchan, comes yet another 'complete' Bollywood entertainer. It has almost every ingredient to enter the 100 crore club. Cashing in on the popularity of one of the biggest stars in India, Shah Rukh Khan, add an overdose of comedy, action, romance and here is your Rohit Shetty blockbuster!

The story isn't very different from all the usual boy-meets girl romance. You know from the beginning what will happen. You have seen it many times before. Rahul (Shah Rukh Khan) embarks on a journey to fulfill the last wish of his grandfather: to have his ashes immersed in the Holy water of Rameshwaram. He meets Meena (Deepika Padukone) on the train and while attempting to rescue her from kidnappers gets caught up in her mess. Thus begins his journey to her village, her people, and how her fight becomes his fight.

This is not a movie devoid of flaws. A predictable story line, over the-top Shah Rukh's acting, too much of Tamil conversations, indigestible action but still... This movie leaves a smile on your face when you leave! There are always moments which will make you laugh, and a special mention to Deepika Padukone for her much-talked-about 'boakwas' accent, she just steals your heart!

I was among the critics who didn't want to see it, but after watching it I must recommend... This vehicle is worth being onboard for once!

THE CONJURING

CAST: Vera Farmiga, Patrick Wilson, Lili Taylor, Ron Livingston.

RATING: ***

Finally a movie which will spook you!

From the director of Saw and Insidious, comes yet another Horror flick. And this one says "Based on true events" in the beginning. Now any such horror movie which claims to be inspired by true events generates interest.

Set in 1971, The Conjuring focuses on the married paranormal researchers Ed (Patrick Wilson) and Lorraine (Vera Farmiga) Warren, who lecture at colleges across the US on all the interesting cases they come across. Just as they are thinking of retirement cue the Perron family; parents Roger (Ron Livingston) and Carolyn (Lili Taylor) are scared for their lives and the lives of their 5 daughters claiming there is something evil in their now Rhode Island home. It doesn't take long for the Warrens to discover that the Perron's are being tormented by something supernatural, but what is it, and what does it want?

This is not a movie which will haunt you with its scary faces, or sudden loud noises or any such outdated tricks. This one comes as a gem which will keep the atmosphere spooky all the time! And will give you the required chills at apt moments. There are not many horrific scenes, but when there are, they spook you to the core! With absolutely no gore, raunchy scenes or any cursing, this movie stands out in the horror genre. For all of you who love being feared, this one is for you! With fine performances from a not-so-renowned cast, Conjuring comes as the old-school horror flick.

Dead body hanging from the tree, an ugly figure over the cabinet, and the game of 'hide and clap'! This movie has got some moments of its own!

Finally a real horror flick!!

Grand Masti

CAST: Riteish Deshmukh, Vivek Oberoi, Aftab Shivdasani.

RELEASE DATE: 6th September, 2013.

WHAT TO EXPECT: An out-and-out adult comedy!

Shuddh Desi Romance

CAST: Sushant Singh Rajput, Parineeti Chopra, Vani Kapoor.

RELEASE DATE: 6TH September, 2013.

WHAT TO EXPECT: Bollywood's rising stars come together in another directorial venture of the 'Band Baja Baraat' director Maneesh Sharma.

Prisoners

CAST: Hugh Jackman, Jake Gyllenhaal, Viola Davis.

RELEASE DATE: 20th September, 2013.

WHAT TO EXPECT: Yet another fast moving Hollywood thriller studded with a heavy duo in the cast!

Mickey Virus

CAST: Manish Paul, Varun Badola, Elli Avram.

RELEASE DATE: 20th September, 2013.

WHAT TO EXPECT: After Ayushman Khurana, here is yet another TV anchor making his big-screen debut with a comedy thriller!

Phata Poster Nikla Hero

CAST: Shahid Kapoor, Ileana D'Cruz.

RELEASE DATE: 20th September, 2013.

WHAT TO EXPECT: A complete Bollywood masala flick!

This Is The End

CAST: James Franco, Jonah Hill, Seth Rogen.

RELEASE DATE: 20th September, 2013.

WHAT TO EXPECT: Already being hailed as one of the better comedies of the year in Hollywood!

Don Jon

CAST: Joseph Gordon-Levitt, Scarlett Johansson, Julianne Moore.

RELEASE DATE: 27th September, 2013.

WHAT TO EXPECT: Already acclaimed adult comedy!

Elysium

CAST: Matt Damon, Jodie Foster, Sharlto Copley.

RELEASE DATE: 27th September, 2013.

WHAT TO EXPECT: Yet another Hollywood science fiction.

WHICH STATION ARE YOU LOOKING FOR??



How strange is it that life takes us to different places and we meet new people. This nature of life, sometimes resembles a train journey. The way things happen when we travel in train, the same goes for life. We meet people, make intangible bonds and then bid adieu. The mysterious voyage of life contains the essence of the journey of a train. But there still lies a big difference, like the certain turns, halts and changing surroundings of train journey. These traits of life are much less obvious.

As we board a train, we meet new people, become friends in a few minutes and after a short while, the connection appears to have reached the maximum "broadband frequency". We chat, share emotions and have fun together. But then the train comes to a halt at station and some of the co-passengers desert us. People who were so intimate only a few hours back, move to some other world leaving behind memories and a realisation that the period of togetherness has come to its end. But then again, new passengers arrive and the cycle continues. But again we reach the same end point. Either of us have to deboard the train at a station and move on. Isn't this what we actually experience in life?

Our childhood days and teenage, which we spend in schools and colleges, are no less than heaven. The fun, excitement and strong bonds which we share with school friends appear to be incessant. The lunch breaks, the stupid games, the class tests and the company of amazing friends in everything we do, are seen as the key elements of our funny little world. But then the dynamic nature of life breaks this stability and then comes the separation. The promises of staying in touch and being the best buddies forever, become so hollow. This lands us to our respective stations of college life.

The college provides a new life, new people and a place to create new memories. The goodbyes which we just said to a few are then followed by "hellos" to others. Then begins another journey, again a world of fun and frolic is created. Those whom we greeted with a formal smile initially are now the ones who compel us to burst in the peels of laughter. They make us cherish every little moment of this beautiful life and stand by us through every thick and thin. Therefore, by healing the older wounds of separation, they again tie a thread of hope to our lives to stay together forever. And it's the time when the smooth journey of life takes a unexpected turn and reminds us of different stations which lead to partition.

Yes!!! Even college life ceases and the pain of being without our closest friends hurts the soul.

It's not just at different stages of our lives that the feeling of parting plays its role. It's the law of nature which can greet us at any point of time. Sometimes it's about very close relatives, our neighbors or someone we had not known for long but still had a strong connection emotionally.

Unlike the train journeys in which the time, place and most importantly, the destination of other passengers is known, everything is uncertain in life. In life, the emotional bonds between people don't allow them to accept the parting phase of any relationship and therefore the unexpected goodbyes prove to be very painful. Thus the feeling of being alone knocks at the door. At this point one often asks as to why life follows such a trend? Why does it always happen that those who add life to our lives have to leave it for us to live alone?

Well, the interrogations can't be solved certainly but there does exist a hope of other stations which will bring new passengers into our lives, who would fill it with the hope to encourage us to live happily.

Likewise, life is also about choosing new paths. You are absolutely free to choose your own path. It's your life, you only have to decide what's best for you.

Your future is not determined by the school you graduate from. It's determined by who you are as a human being. Higher education is an important tool for building character. It can be seen as climbing a high mountain. The higher you climb, the broader becomes your vision and the wider is the world that unfolds before you. You begin to see things, that you could never see before. The question of where you study - whether at a school, a two-year college or a four-year university - is something that only you can decide, based on many factors, including your family circumstances, academic ability and personal desires and ambition. If you make the decision yourself, you'll have no regrets later. You mustn't live a life filled with indecision and lingering regret. You mustn't feel jealous of others. There is no easy path to success..

What is fulfillment then? It is Satisfaction or happiness as a result of fully developing one's abilities or character. That can be only done when we face difficulties in our lives. Without difficulties and challenges, there can be no fulfillment, and without fulfillment, there is no happiness. There is no happiness without hardship. Everyone forgets the process of battling hardships, and searches only for the end result - the destination of happiness. Instead "happiness is a journey, not a destination".

Because I'm an engineer
Once upon a time
life was simple like a game
but then I chose engineering
and nothing remained the same

The fear of ragging was obvious
so was the burden of studies
facing the peer pressure
and paying the huge fees

Last night studies was all i did
to pass the exams so hard
but sometimes I'd flunk
due to questions they bombard

Luckily, I had the girls swooning
and sparks flew so fast
finally found the special one
alas! all in vain and nothing could last

Stress became my companion
and so the smoke and beer
for I never had a clue
where my life would steer

Guilt arrived a bit too late
studying all night was all I could think
finally, I'm an engineer
enjoying my life to the brink

What all I've been through
was no less than a roller coaster ride
life is now a smooth voyage
for now I've found my bride

I owe my success to the engineering
for it removed all my flaws
scientists study what really is
and I create what never was!

P
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book review

My Family and other animals

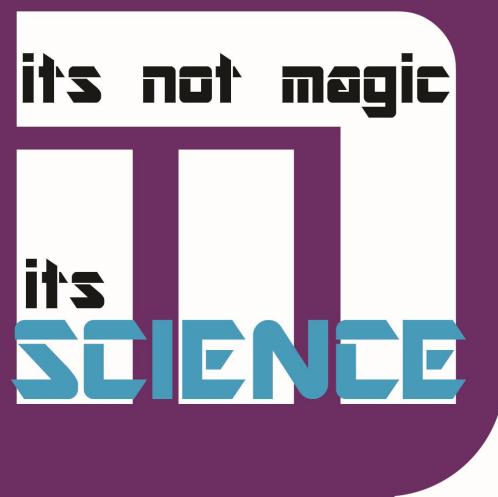
Author-Gerald Durrel

Rated: ***

I was first introduced to this book by my English teacher at school in class XI, as a supplementary reader (my school had this fascination of including extra books!). On seeing the book I almost instantly decided that I was going to despise it, obviously because it would be tested. I avoided reading it the whole year, but, more out of compulsion than by choice, I read it and realized I had terribly misjudged it.

The story is of a five year sojourn that Gerald Durrel (Gerry) recalls making with his family on the Greek island of Corfu. His family- mother, elder brothers Larry and Leslie, elder sister Margo and the dog Roger, on the island of Corfu is more like a flamboyant slapstick comic opera. Gerry is quite young, being at the impressionable age of ten. He is a nature enthusiast and leaves no opportunity to explore the island's flora and fauna. This book tells about his experiences with his family and the friends they make, not to forget their pets and the island animals. Gerry has used such beautiful words to describe even the ugliest of insects that you wish to read more. The description of each and every place on the island is so vivid that you can actually imagine it in your mind. The book is funny, emotional, chaotic and a treat to read; especially if one wants to escape their monotonous lifestyle. With snakes in the bath, scorpions on the dinner table, magpies dancing drunk in the party and an endless list of dreadful puns, there cannot be a more hilarious read.

The ones who are less of a nature enthusiast might not appreciate the book, but read it and its two sequels, 'Birds Beasts and Relatives' and 'The Garden of the Gods', patiently and in no time, will you be happily addicted to the series, like me.



Have you ever wondered how technology works? How can you reach a person sitting miles away from you with just a cell phone? How can you watch a film on one device, switch to another gadget and pick up right where you left off? How easily you can remote control everything (almost everything) these days? Well yes! Many a time, such questions cloud our minds, but we often overlook them and accept them as a matter of fact.

Technology has become an integral part of our lives. But how many among us REALLY know the science involved in it? Here's a solution to all those curious minds that actually bother themselves with such questions.

Let's get acquainted with the WORLD WE ARE LIVING IN!!

It's an era of wireless connection. The art of connecting things is becoming more and more complex these days. Bluetooth is one such technology that helps us in connecting devices. Bluetooth is one of the greatest survivors and adaptors of the mobile world, defying predictions of its looming irrelevance every few years by evolving new skills and remaining a key part of the tech-spec of today's newest and most edge cutting smart phones. Bluetooth offers low bandwidth wireless connections to become so simple to use, that they can easily integrate into daily life. This provides wireless connection between the Internet and other connecting devices. Bluetooth networking transmits data via low-power radio waves. It communicates on a frequency of 2.45 gigahertz (actually between 2.402 GHz and 2.480 GHz, to be exact).

Bluetooth can connect up to eight devices simultaneously. With all of those devices in the same 10-meter (32-foot) radius, you might think they'd interfere with one another, but it's unlikely. Bluetooth uses a technique called spread-spectrum frequency hopping that makes it rare for more than one device to be transmitting on the same frequency at the same time. In this technique, a device will use 79 individual, randomly chosen frequencies within a designated range, changing from one to another on a regular basis. In the case of Bluetooth, the transmitters change frequencies 1,600 times every second, meaning that more devices can make full use of a limited slice of the radio spectrum.

When Bluetooth-capable devices come within range of one another, an electronic conversation takes place to determine whether they have data to share or whether one needs to control the other. The user doesn't have to press a button or give a command, the electronic conversation happens automatically. Once the conversation has occurred, the devices form a net-

work. Bluetooth systems create a personal-area network (PAN), or piconet. Once a piconet is established, the members randomly hop frequencies in unison so they stay in touch with one another and avoid other piconets that may be operating in the same room.

Wireless charging.

There are times when it may seem like we're living in the future. We have devices that we can hold in our hands such as smart phones, e-readers, tablets, portable music players and what not? And each of these devices require power to operate, which means sooner or later you'll have to charge them. That's when these cables really become an irritation. And if you have to recharge everything at once you've got a techno-octopus just waiting to tangle you up. But there are ways to transmit power -- and charge devices -- without cables. There are several products in the market today that you can use to recharge a device just by setting the gadget down on a charging pad. Then, as if by magic, power transmits from the pad to the device. But it's not magic -- it's science!

Wireless charging is one of the many new features appearing in the latest smart phones. Wireless charging is immediately appealing because it allows you to charge your smart phone without fiddling with USB plugs. Just place the smart phone on a wireless charger and it will start charging. Of course, the wireless charger itself must still be plugged into the wall. The requirement for a separate device that must be plugged into the wall has led to argue that wireless charging "is actually, for most situations, more complicated".

Wireless charging is more accurately described as "inductive charging" because it uses magnetic induction. The short explanation is that it uses magnetism to transmit energy. The current coming from the wall power outlet moves through the wire in the wireless charger, creating a magnetic field. The magnetic field creates a current in the coil inside the device. This coil is connected to the battery and the current charges the battery. Devices must have the appropriate hardware in them to support wireless charging — a device without the appropriate coil can't charge wirelessly.

PS: Technology is growing. But when will you?

