



Eloquence

Nowruz 18-19



Research Scholars Magazine





From the Editors

Is there more to research scholar's enclave other than research?

The answer to this question came in three different compilations; **Reflections-2015, Esperanza-2016 and the Quintessence-2017**, which have shown out the talents of the research scholars. Eloquence continues to take forward this legacy with the eloquent writings of the researchers and their innermost thoughts. Now it is time to welcome **Eloquence-2018** radiating the vibrant skills of the enclavians.

Despite the busy research life and short time period given for magazine contribution, expressive ideas were brimming from the enclavians. Reading each article boosted our interest to organize this event better and to make it a memorable one in the history of Research Scholar's enclave. This magazine is an interference of light, art and thought. Our enclave is rich in diversity with people coming from different parts of India but all working together as a family under a common roof as the young bright minds. We take this opportunity to formally welcome all the first years to our enclave family.



डॉ. अरुण कुमार भादुड़ी
प्रतिष्ठित वैज्ञानिक एवं निदेशक



भारत सरकार
परमाणु ऊर्जा विभाग
इन्दिरा गाँधी परमाणु अनुसंधान केन्द्र
कल्पाक्कम 603 102, तमिलनाडु, भारत

Dr. Arun Kumar Bhaduri
Distinguished Scientist & DIRECTOR

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH
KALPAKKAM 603 102, TAMIL NADU, INDIA



Message

I am happy to greet the new batch of young scholars joining the team of talented Research Scholars of our Centre. We are happy to be able to attract bright students from across the country. At this time we have about one hundred and seventy five Research Scholars who are pursuing their Ph.D. in different laboratories of IGCAR including twenty six scholars who have joined this year. Research Scholars at IGCAR are pursuing high quality research in some of the exciting inter disciplinary fields linking basic sciences with engineering. Their presence and contributions have excited the academic community of the Centre. Scholars have ushered in a "University like" environment amidst the mission oriented programmes being pursued in the Centre. Their success is reflected in excellent achievements by way of awards, note worthy publications and placements beyond completion of the programme. Scholars have adapted to the working environment and hostel life very well and are making the campus lively. Our efforts have been and will continue to be focused on nurturing their talents and shaping them into mature, efficient and highly productive R&D personnel of the brand "IGCAR" as also providing amenities for extra-curricular activities so that they have an enjoyable experience. I am glad that Research Scholars are organizing this annual celebration towards welcoming the new comers and also bringing out a publication to highlight their extra-curricular abilities.

(Arun Kumar Bhaduri)



**Prof. G. Amarendra, Director, Materials Science Group (MSG) and
Metallurgy & Materials Group (MMG)**

Message

My Dear young Colleagues,

I am happy to know that a fresher magazine showcasing the artistic talents of research scholars is going to be brought out this year too. I understand that the magazine will showcase various forms of essay writing , poetry, sketches, cartoons etc., I am sure that this magazine will encourage many budding and aspiring young students to display their talents through this magazine. It is very commendable that this activity is being pursued over the last few years. My sincere appreciation and compliments to the editorial committee for their efforts and also commend the contributors of various articles.

I would also like to wish all the young scientists and engineers the best of success and recognition in their scientific pursuits in the coming years.

With my best wishes,


(G. AMARENDRA)

Dr. T. S. LAKSHMI NARASIMHAN

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GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
INDIRA GANDHI CENTRE FOR
ATOMIC RESEARCH
KALPAXKAM 603102, TAMIL NADU

Message

It has always been a pleasure to be involved closely with the young research scholars of HBNI at IGCAR. Students from different parts of the country come together and join hands in taking up challenging research problems pertaining to the Centre and contribute to the R&D activities of the Centre.

I am very happy to be associated with the fresher's party, the most expected event at Research Scholars enclave every year. The intensity and enthusiasm with which the party is arranged truly reflect the youthful exuberance and the lively approach of the enclavian's apart from bringing out the organizational skills in them. My best wishes to the new entrants for an exciting scientific research and to the outgoing scholars for fruitful post-Ph. D. career.

It is really nice that a magazine has been brought out on this occasion as it always act as an inspiration for the students to express their creativity. While the scientific publications and research work reflect the scientific excellence, the cultural events and the magazine bring forth the passion and talent these budding Scientists have for artistic and literary works. I congratulate the Research Scholars for bringing out such a fun filled and yet very informative magazine.

With best Wishes,

(Dr. T. S. Lakshmi Narasimhan)

Dr. N. Sivaraman

Dean (Academic), Chemical Sciences
HBNI-IGCAR



Message

Welcome 2018 batch HBNI research scholars to the wonderful IGCAR Campus. I am happy to mention here that you have joined a very prestigious national institution under the Department of Atomic Energy. The mission is to encourage pursuit of excellence in science and engineering disciplines, to provide an academic framework for integrating basic research with technology development, and encourage inter-disciplinary collaboration. I believe you all will in the years ahead to excel in research, foster innovation, creativity and contribute to the scientific advancements for various societal applications. I am sure the researchers will find in our centre, the right ambience and spirit for pursuing excellent quality scientific research work.

The freshers party function for the new entrants to be celebrated with joy, welcoming them into the HBNI institution. Congratulations to the senior scholars for taking up this activity over the past few years. I am also happy that senior research scholars are organizing the annual celebration and bringing out a publication.

I wish you all success in your endeavours.

N. Sivaraman

Dean (Academic), Chemical Sciences
HBNI-IGCAR

Dr. Anish Kumar

Dean, Academic (Engineering Sciences)
HBNI-IGCAR



Message

Dear Friends,

It gives me great pleasure in welcoming the 2018 batch of research scholars to HBNI-IGCAR. First of all, I would like to congratulate you on joining the prestigious institute and getting an opportunity to collaborate with scientists of international repute. I am sure that with your dedicated efforts and the ample opportunities at IGCAR, you will flourish in your research career and bring laurels to the institute, your family and our country. I urge you to channelize your energy to build a better future for mankind.

I congratulate the senior fellows for meticulously organizing the event of welcoming their juniors to the JRF enclave and also bringing out this magazine showcasing the artistic and literary talents of fellow colleagues.

Wishing you all the very best in all your future endeavours...

(Anish Kumar)

Prof. R. Rajaraman

Dean, Academic (Physical Sciences)
HBNI-IGCAR



Message

A very warm welcome to the batch of 2018-19 research scholars! I must congratulate you for having become a proud researcher in one of the prestigious and premier research institutions of our country, which is affiliated to the Department of Atomic Energy. One of the mandates of this department is to provide high end research facilities in the field of basic sciences to deserving students, which would enable them to work on programmes of national importance. HBNI is the academic wing of this department, providing such a platform for world class research.

Situated on a serene sea shore, with historical places close by, both the Kalpakkam township and your work spot provide an excellent ambience for both your stay and your research in the coming years. You will have the experience of being taught by pioneers in each field, and be rest assured that you will be offered all the support and guidance throughout your tenure here. We always encourage you to be open to new ideas, experiences and directions.

Let me quote from a recent article from Nature journal: “The key attributes needed to produce a worthy PhD thesis are, a readiness to accept failure; resilience; persistence; the ability to troubleshoot; dedication; independence; and a willingness to commit to very hard work - together with curiosity and a passion for research”.

With everything in your favor, we expect you to completely make the best use of this unique opportunity and do your best.

On this occasion of Fresher’s party I once again extend a warm welcome to all the new comers and also take this as an opportunity to congratulate the efforts taken by the seniors to welcome the new entrants and make them feel at home.

Looking forward to an excellent scientific endeavor and wishing each and every one of the very best!

A handwritten signature in blue ink, appearing to read 'R. Rajaraman', with a stylized flourish at the end.

Prof. R. Rajaraman

Nature

... Always attractive

Nature is the true witness of lifespan.
Feel the untold speech of nature.
Open your shoes and feel the grass with bare feet.
It will make you forget the tiredness of the day.



Nature is the true friend of our distracted mind.
Feel the beautiful sights of nature.
Just look and feel the breeze outside a moving bus.
It will make you forget the fatigue of the journey.

Nature is the true place to reprieve from loneliness.
Feel the mystic music of the nature.
Close your eyes for some moments and feel the silence.
It will make you forget your worries in life.

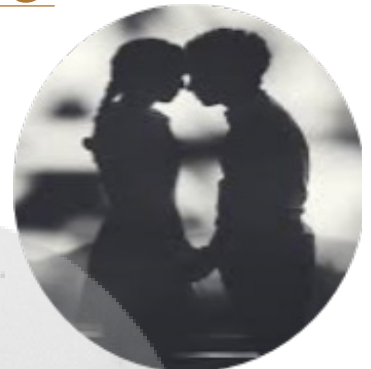


Nature is our mother.
Feel the harmony of music, life in air, and drizzling of rain,
the hardness of mountains, the softness of flowers,
and listen to the stories told by her.
It will shape you a man of everything.

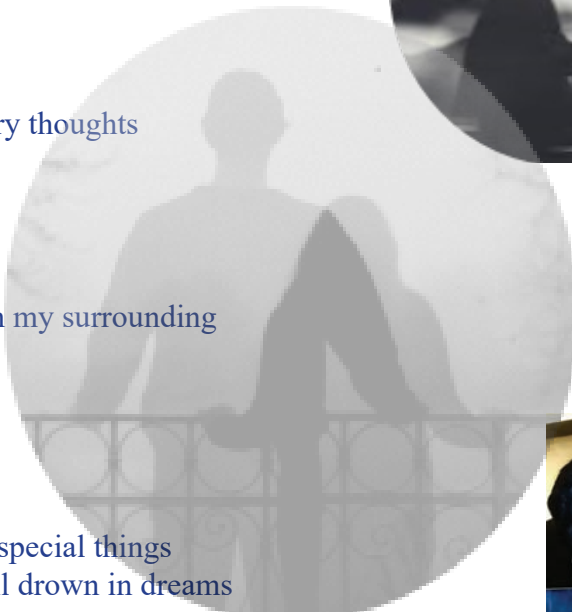
There is still something

...It's a feel of everybody

When I see you, cupid shoots arrow to my heart
I feel like my heart is only beating for her
Can stop at any moment with her absence
You know what, there is something.

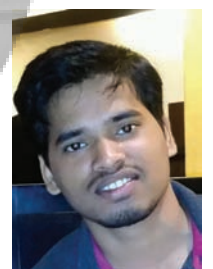


When I know you, my mind starts making imaginary thoughts
I feel like my mind is now doing one thing
Can think about her for all the time
You know what, there is something.



When I come close to you, strange things happen in my surrounding
I feel like listening to some amazing bits
Can drown in those dreams
You know what, there is something.

With time, a relation has ups and downs
When we are down, it is very difficult to feel these special things
Still one's heart will beat, mind will think, even will drown in dreams
You know what, there is still something.



- Gopinath Sahoo

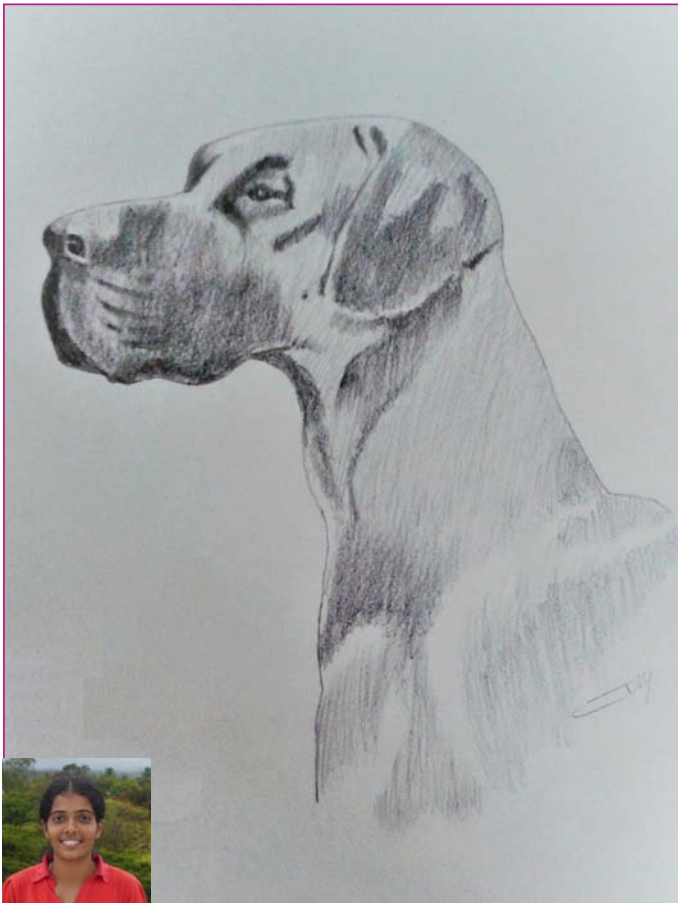
The Blissful Meet

She meets, paying no heed to me
I wonder what is going through her head.
It adds curiosity in her friends what will be?
Her annoying attitude turns my face red
Her face is innocent and look is deep
And a smile fills her flawless, untanned face.
If only into her heart, I may creep.
The slow motion moments make my heart race.
Our time together is a dream never true.
But I fear she can see into my heart.
When I am near her, I feel bliss and blue.
But something new won't be able to start.
Since nothing will change, onward I must go.
These feeling I should hide and not to show.

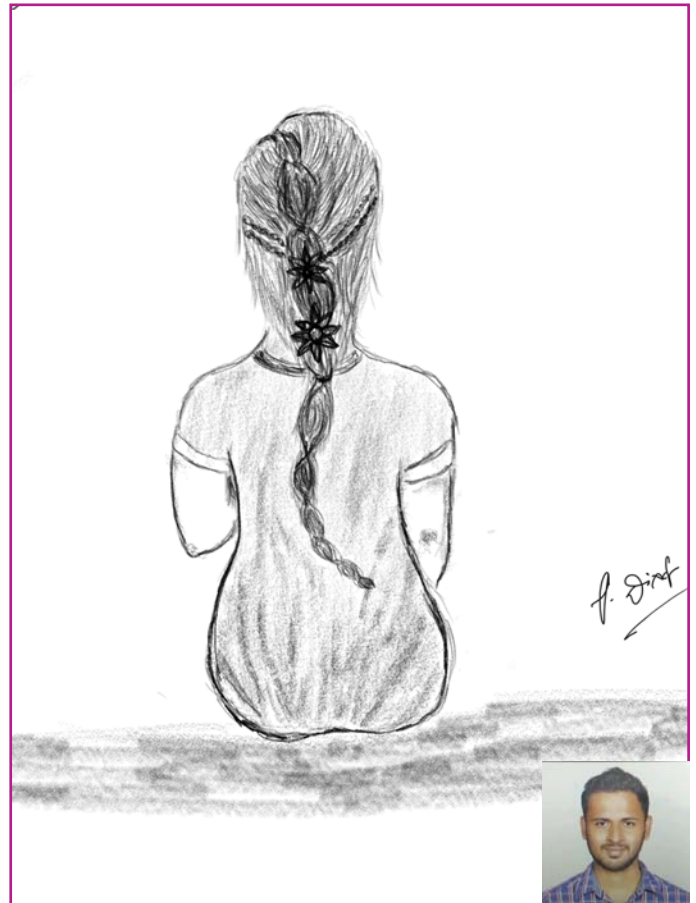
- C. Abinash Bhuyan



Teena's gallery



Prabhu's gallery



Before dusk

From the cubby,
Side to the mudstone roof -
From the half-curtained windows,
Side to the chaotic couch -
I was gazing,
With a bowl of grains to my support -
Straight to the sun-glittered greens
Gathered there some small sixteen.

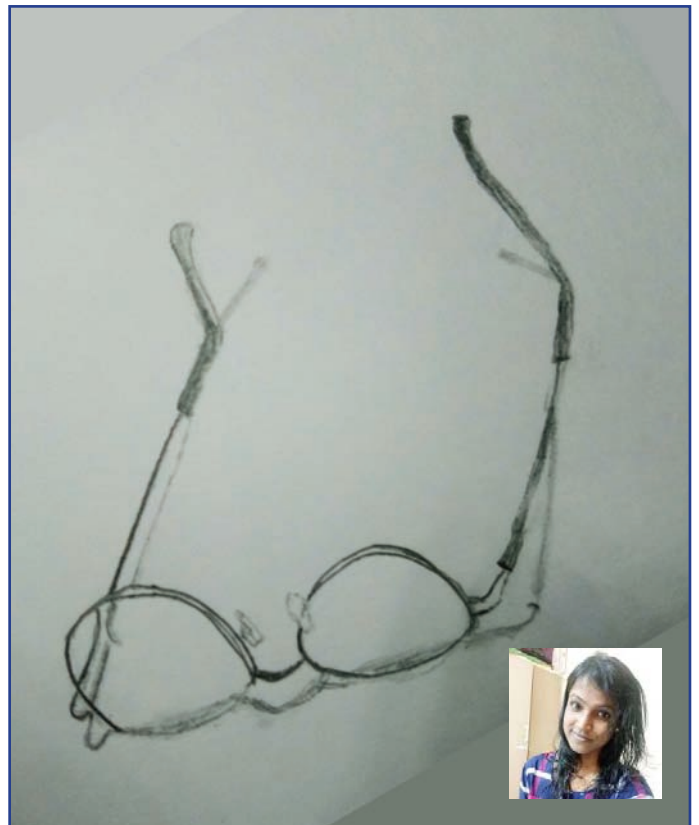
Five stood half-bent -
Remaining did a hurdle race.
A few more joined -
One skilled with the ball.
Juggled it she -
On her foot and head,
Stood her allies
With respect and happily amazed.
Words went undiscerning
Amidst all cheers.

Eleven minutes past,
Stopped the hour-long drizzle -
The colourful crescent barely visible.
Noticed it two them -
Others followed, but unexcited
Returned to the ball again.
The factory smoke veiled the bow.
Too young are they, for disdain.
It's going to be dusk,
But too many games on row.



- Uttiyoarnab Saha

Arpita's gallery



அம்மாவுக்கு....

புத்தாடை நானுடுத்த கந்தல்துணி
நீ கட்டி களத்துமேட்ட நோக்கி
கதிரடிக்கப் போனவளே!

களத்துல அடிச்ச நெல்லில் ஒருலக்கு
வாங்கிவந்து நீ போட்ட நெல்லுசோறுக்கோ
நெஞ்சமெல்லாம் தித்திக்குமம்மா!

உண்ட களப்புல உடனே நானுறங்க
உன்மடி தலையணையாகும் - உன்
முந்தானை விசிறியாகும்!

பட்டணம் போய் நான் படிக்க
பாதி சொத்த வித்தவளே - உன் தோடும்
மூக்குத்தியும் என் வழிச்செலவுப் பணமாச்சோ!

படிச்ச நான்தேறி பட்டமுந்தான் வாங்கிவிட்டேன்
ஏனோ படிப்புக்கேத்த வேலையின்றி
பாவி நான் பரிதவிச்சேன்!

வேலைவெட்டி இல்லாம ஊர்சுத்தித்
திரிஞ்சபோதும் கழனி வேலை பாத்து
நித்தம் கறிச்சோறு போட்டவளே!

வறுமையின் வாட்டத்தால் துவண்டுபோய்
நானிருக்க அன்பான வார்த்த சொல்லி
ஆறுதல் தந்தவளே!

இப்போ பவுசான வேலை கெடச்சு
பட்டணத்தில் நானிருக்கேன் - பெத்தவளே
நீயில்லாம நித்தமும் நாந்தவிக்கேன்!

அறுவடை முடிஞ்ச கையோட அடுத்த நாள்
வண்டி புடிச்சி நான் இருக்கும் இடந்தேடி
நீ வரவேண்டுமம்மா!

எல்லாமே எனக்குன்னு பாத்து பாத்து
செஞ்சவளே - உனக்கென்ன செய்யப்போறேனு
எனக்கேதும் தெரியலயே!

மறுஜென்மம்னு ஒன்னிருந்தா எம்மகளாகப்
பிறந்திடம்மா - நீ பெத்தகடனுல நான்
ஒரு துளியாவது தீர்த்திடுவேன்!

- ஜெகன் கோவிந்தராஜ் (கதிரியக்க வேதியியல்)

வினாக்களால் சிறைபிடிக்கப்பட்டால்
விடுதலைக்கு வரலாற்றையன்றி
வேறெதனை நாடமுடியும்?

பஞ்சமும் பட்டினியும் கண்டு
பரிதவிக்கையில் ஆயுதத்தரித்த
பெரும்பேராசு மிரட்டும்போதும்

செல்லரிக்கும் சுரண்டலெனைச்
சுட்டெரிக்க அதையேயுறியாதவன்
தீர்வினைத் தேடியவையும்போதும்

போர்வீரனெனில் ஆயுதத்தரிக்கலாம்
சாணக்கியனெனில் வழிநடத்தலாம்
சாமானியன் என்னசெய்யமுடியும்?

மானுடம் முளைத்துக் கிளைவிட்ட
நாள் தொட்டு வரலாற்றிடம்
தொடுக்கப்படும் வினா இது!

ஆயிரமாண்டுகளுக்கு ஒருமுறை
படைத்துப்புரப்பவன் விண்ணிழிந்து
மண்திகழ விழைவோரை

வரலாற்றைச் சமைக்க விடையோடு
விடைகொடுத்து அனுப்புவது
நெடுநாள் வழக்கம்.

கொல்லாமையொடு புலனொறுத்தல்
தன்னையே வென்றதனால்
ஆடை துறந்தவனின் வழி!

நல்லெண்ணமும் நற்செயலும்
தன்னையறிந்ததனால் உலகைப்
புரிந்தவனின் மொழி!

மன்னித்தலும் அன்பிற்கென
மரித்தலும் ஆட்டினையேந்திய
மானுடமைந்தைனின் வழி

சுடுமணலில் தப்பிபிழைக்கவும்
அலைகடலில் நீந்திப்பிழைக்கவும்
சாமானியன் வாழும் வழிகளிவை.

சாமானியன் ஆளும் வழி -
சுடுமணலில் சோலையையும் ஆழ்கடலில்
தோணியையும் அடைவது மட்டுமே!

உளங்கொதித்து நின்றவனிடம் வரலாறு
வழங்கியது - ஒருவழக்குரைஞனை!
சாமானியனை சமுத்திரமாக்கியவனை.

கொலைவிலிலும் கூர்வாளுமல்ல
அரசினை ஆளும் ஆயுதம் -
அறமும் விழுமியங்களுமே என்றவனை

சாமானியனின் ஏற்பே அரசின்
அடித்தளம் - அதன் நீட்சியே
அதிகாரமும் சேனையும் என்றவனை

அரசின் ஓரங்கம் நீ - உனக்கானவை
அதன் வெற்றிகள் - தோல்விகளோ
உனக்கு மட்டுமேயானவை

நீயும் அரசும் சட்ட
நாணின் துலாத்தட்டுக்கள் - இரட்டைக்
கிளவிகள் என்றுரைத்தவனை!

ஏற்பிலா அரசையும் அதன் சட்டத்தையும்
எதிர்க்க - ஒத்துழையாமையே
போராயுதமென்று கோரிநின்றவனை!

கனவானாக இருந்து சாமானியனுக்காக அரையாடை
தரித்தவனை - சாமானிய மொழியிலேயே கதைத்தவனை!

சாமானியனின் அரைக்கடவுள் அவன் அதனாலேயே
சாமானியனுக்கென சாமானியனாலேயே மாண்டவன் அவன்.

விண்ணிழிந்து மண்திகழ்ந்தவனின்
சொல்லுக்கெனச் செவிசாய்த்துச்சிறு
தெருக்களில் திரிந்தனர் கனவான்கள்

சாமானியனுக்குக் கற்பிக்க அவர்தம்
மொழி பயின்று தெளிந்தனர்
சாணக்கியர்கள் பலர்

மகளிரின் வீட்டுச்சிறையும்
கடவுளின் கருவறைச்சிறையும்
அவனின் பெயரால் தகர்க்கப்பட்டன

ஊர்களே சேரிக்கென பாலங்களைத்
திறந்தன - சுயமிழந்த தத்துவமாபுகள்
சுட்டப்பட்டுத் தம்மை அறிந்தன

அரசியலோ ஆயுதத்தரித்தது
உரையாடலே உலகைச் சமைத்தது
எளிமையே உலகை ஆண்டது

காந்தியெனும் சாமானியனின் பெயரால்

-- மு.தங்கம் (இயற்பியல்)

புதியதோர் உலகு

சலித்துவிட்டன இந்த நடக்கும்
யானையும் ஓடும் புலியும்
பறக்கும் பறவைகளும்!

இருக்கட்டும் பறக்கும் யானைகளும்
நடக்கும் கயல்களும் சூழ ஒருலகு -
அதில் சிறகுகளுடன் நானும்!

அங்கேனும் சாத்தியப்பட்டும் தர்க்கசிறையில் இருந்து
மீண்டெழே

வேலியற்ற ஒரு விடுதலை!

எமது நினைவுகள் உண்மையின்
வெம்மையில் வேகட்டும் - கனவுகளை
பொசுக்க வேண்டியது எதற்காக?

சுதந்திரத்தை அளிக்காத கல்வியைக் கற்றும் அரிய அறிவைப்
பெற்றும்
மானுடம் கொண்ட பயனென்ன?

நகரா நதியைவிட
திரையெழா ஆழியைவிட
ஓடும் வாய்க்காலே மேல்

சிந்தனைச் சுதந்திரத்தின் தேவை
திகைத்து நிற்கும் பேரறிவினும்
வெடித்துச் சிரிக்கும் அறியாமையே

வெம்மையிடு உயர்விழுமியங்களை
அதன்மீதான மானுடக்கேலிகளும் கிண்டல்களுமே தணிக்க
முடியும்.

ஆயுதங்களை என்னலாடா வீரனும்
அறிவை நகையாடா அறிஞனும்
அவற்றின் முற்றடிமைகள்!

கேள்விகேட்கப்படா அறிதலும் கேலிசெய்யப்படா
கொள்கையும்
மானுடச்சிறையின் வாயில்கள்!

வினவப்பட வினாக்களையும்
எள்ளிநகையாட கொள்கைகளையும்
கொண்டாட அறியாமையையும் வேண்டி - மு.தங்கம்
(இயற்பியல்)

உயரப்பறத்தல்

வெட்டப்பட்ட சிறகுகளுடன் பறவை

உயரமாகப் பறக்கிறது

தரையைத் தொடும் வரை

Flying High:

“This beautiful haiku poem is about a ‘bird’ whose wings are clipped, but the bird is not aware of that and tries to fly high, not realising the fact that it will soon touchdown inspite of its efforts.” The bird remains ignorant till it reaches the ground, so is the life of many people today.

உன்னைப் போல் ஒருத்தி

பேருந்து நிலையத்தின் கடைசி இருட்டில்

கைதட்டி கூப்பிடும் பெண்ணிற்கு

தங்கையின் சாயல்

என்ன செய்வது?

A girl like you:

Here the poet describes a “harlot” in the bus stand, seeking customers by clapping her hands in the darkness of the night and finds her likeness to be that of his sister. The poet is deeply moved and expresses his helplessness towards her.

வருடத்தின் தொடக்கம்

உணவு கிடைக்கும் நம்பிக்கையில்

வறுமையின் செழிப்பில்

கோவிலின் திசை நோக்கி நடந்தான்

ஏழை நாத்திகள்.

Beginning of a year:

“Describes a poor atheist in his privation going towards the temple in the hopes of getting some food“. When it comes to one’s survival or his principles in life? Survival always wins. This has been titled so, as during the beginning of the year one is surer of getting prasadam (free food) in temples.

அவளது சிரிப்பு

வகுப்பறை இரைச்சலிலும்

தனியாய் கேட்கிறது

அவளது சிரிப்பு

Her smile:

The poet could hear the sound of his girl’s smile even amidst all the noises in the class; such is the smile of his beloved.

சர்க்கஸ் குரங்குகள்

சாட்டைகள் சுழற்றப்பட்டது - குரங்குகள்

வலமிருந்து இடமாகவும்

இடமிருந்து வலமாகவும்

சாட்டையின் திசைக்கேற்ப சுற்றின

சாட்டையை கைக்கொண்டிருப்பதும்

முன்னாள் சர்க்கஸ் குரங்கு தான்

காலம் சுழல்கிறது

சாட்டைகள் மட்டும் மாறுவதே இல்லை

Circus Monkeys:

Describes the plight of monkeys in the circus, how they are whipped each time to do what their trainer wants them to do. But the irony is that they are not being whipped by a Man but by an ex circus monkey itself. Even though the times are changing, but the Scourge (whips) remain the same

Kesavaraja ஆயிரம் கால்கள் இருந்தும் மெல்லவே செல்லும் அட்டை போல அன்றாடத்தின் கால்கள்மேல் நிதானமாக கனவுலகத்திற்குப் பயணிக்கும் ஆதவன்



From Persia with love...



To live is to breathe your presence.

Sweetest are those words those are unuttered.

Your silence is more profound than words.

Luna loves the lunatic.

Mars loves Venus. Earth is the reason for all confusion.

If I am Tom you are Nibbles.

If I am James Bond you are M.

I am afraid you are Persephone as I have to fight with Demeter.

It is easy to win your love for love is won always by losing.

Braveness is the quality of the soul while cowardice is the quality of the mind.

Whenever your pupils dilate I become blind.

Only the oyster has to decide to whom the pearl of love belongs.

Without an eye one can't conceive (imagine) believe (have faith) perceive (see) achieve (attain) and relieve (become free).

I will tell one thing. You should not frown upon me. "You look like a classy shiraz (wine) bottle".

Even in prison I'm free with you.

Wherever you are my heart points you like a compass.

Whenever I am obsessed and look at myself in mirror. I see you.

After all I am just a figment in my mind and so are you.

Cowardice and lies, these are the two things which I hate and love at the same time in you.

Whenever you cry you become a child graciously. Don't worry I will be reason for you to cry forever.

This daydreamer badly needs your help!

Only after hearing your name I felt the taste of honey through my ears.

When the earth and the sky love each other there is rain. Thunder and lightning are inevitable before the rain and rainbow after the rain.

According to this world you are the crown and I'm your subject; to you I'm the uncrowned king ruling your heart; to me you are the heart pumping passionate blood throughout. Let us keep this as a secret.

Love is a subject of chemistry and is purely an exothermic bond forming reaction where explosion is inevitable.

You are the one who has touched the inner chord of my heart.

Without you I can fly in fantasy; with you I can land in life. Both make me nostalgic as attaining one means losing the other. But now I understand the importance of landing gear!

Don't be confused. I'm an insect that has to be crushed or else I may sting all over.

It is a great pleasure to make you mad, shy and angry, cry and beat me as you become adamantly beautiful. But when you smile for a moment it is the most intoxicating.

Your beauty still remains a mystery as it can't be measured. Even if it is measurable two eyes aren't enough.

Question to know. Believe to ignore. Hate to love.

Truth or dare? Both are same.

Want to know Victoria's secret? Ego is the deal.

Fools laugh and cry. Wise observe and acquire (know).

True love results in martyrdom.

Good or bad? Known or Unknown? Truth is what we need. It may be good or bad one should know it.

To hate is to hide. To love is to seek. Let's play hide and seek.

With truth as my sword I will slay all those hidden dragons and tear all those high curtains. This is my vow.

I am a not a hero but a happy outlaw.

What is the need to act brave, proud and good if you are free from fear, shame and guilt?

Before marrying you I have to ask my family! Where ego is my dad, soul is my mom and body is my child.

Bliss is to just witness your presence and this is all I want.

Oh divine! Sleep peacefully, so that you can wake up your soul!

You can marry this poor guy whenever you want.

If I respond I become a slave. If I expect I become a beggar. If I simply witness I become your soul.

Finally as tradition demands I have to say it. "Oh! Familiar stranger! I love you".

If you are a school teacher I will be the naughtiest student in that class.

Death is certain. Certainty is death.

Uncertainty is life. Randomness is romance. Randomness and Uncertainty make life romantic.

Often I feel myself as your son or dad but only when you gaze at me I realize who I am actually.

One day caterpillar will become butterfly for sure!

You and I make partners in crime. There is no stated rule for partners in crime other than trust.

Without you I'm a flower without fragrance, shadow without light, nature without culture, freedom without responsibility, an answer without question, an engine without oil, earth without water, food without salt, blood without oxygen, a brain without heart and a heart without pulse.

When you include the irrational with the rational your love becomes real. When you include the imaginary with the real your love becomes complex. This is the mathematics of love.

Patience pays. Silence says: Thank you for the memories my dear PAPILLON!



Love,

Prince of Persia.

-Vishnu Srinivas G S

Love Aaj Kal....

“ No Sango...it is impossible.” My lab-mate was complaining fourth time in last two and half minutes. “ You and love story...you better write how to cook?? How to sleep?? etc..etc..”, he added.

“ Buddy you are my lab-mate. At least you should support me” I replied him with hopeless eyes...and again I tried to flatter him, “ You write nice poem...right..Then why don't you lend me some ideas..”

“Hmmm..first of all you have to realize that you are not you..you are consists of three fundamental particles..got it” My lab-mate advised me with a strict voice.....

“ I know it buddy..electron, proton and neutron....” With a great confidence I answered.

“ Nope. You, your brain and your heart and they never obey collinearity.” He turned down my axioms.

“hmm..I am listening..you carry on...” I replied.

“Have you read my recent poem where I have explained..

“People's paths are full of difficulties but I have chosen difficulties as my path..”

“ No..but you are describing PhD right??” I told with excited voice..

“Fool, Idiot, DufferI am talking about LOVE”

“I think you are right..It is totally confusing and I should abort this idea of writing a Love Story”..I confessed with a sad tone.

After all this I came to my room and just opened my Diary.. “My life... My style” and flipped some old pages ...and turn on my PC and started typing...

Love Aaj Kal 1

Finally Sunday came....I took out my brain from those nano-chips.....Though, dimension wise, these nano chips are very small; but, their exploration is hell lot of an adventure. Well! I guess, it would not be a mistake to compare it with the adventure of the host of National geography. It is wonderful-something new and something cool.....on daily basis.

On the other side, my friend (Mr. Nila), tired of simula-

tion was really happy to have this Sunday. He was not being able to believe that Sunday had actually come after six precise days. I think, it was not fitting into his calculation. Certainly, he has become so much certain about the uncertain things nowadays, certain things seem uncertain to him.

As per the plan we were invading Pudupattinum on a Star City Black bike. Last time we had already pleased a local Police constable by giving him the awareness fine for not wearing a helmet. Of course, that could not make us aware of wearing a helmet. So, what I did is I parked the bike some hundred meters away from the police to avoid further awareness and we started marching towards the gate.

Whoa! A red color scooty just went past us and in the flash of a second.

We realized, the vehicle belongs to a beautiful lady Wow! blue color T-shirt, black jeans, and a rimless glasseverything was so perfect.....In the very next moment, me and my friend were on the bike, and my black bike was chasing the red Scooty.....and finally, the mission was stopped by the same Local Police constable.....and he had a very noble intention behind thishe wanted to aware us of not wearing a Helmet....I smiled and whispered.....Love Aaj Kal

Love Aaj Kal 2

“Are you sure about it???” , Mr. Nila asked me”

“As usual...no..not exactly but with fifty one percent”, I replied with an emotion soaked voice.

Time 12.30 am...Place 200 meter away from JRF enclave.....to be very precise near to the sea beach Beating the Heisenberg uncertainty principle..exactly on the yellow colored bench.....(the only object that witnesses lots of nonsense of ours). Mr. Nila and I on a Friday night..

The topic of discussion was the time evolution of respective love stories....It was my turn first, and the sweet name in my tongue was “Kavita Srivastavmy first lovein my 1st standard. She is the girl who made me realize the presence of one of the important body part which in general is involved in the cardiac activities and in addition to that is also responsible for some other idiotic and unusual behavior.

But, time had a different plan.... our relationship (!!!!!!!?????) saw a dramatic ending when I was in 5th standard. She moved to an unknown town ...but resides forever in my heart.”

My world stopped for a while though but again resumed. I remember her...I tried to find her out.....but...”

Alas! I could not complete my statement....

One CISF fellow interrupted, “Hey!...What are you doing here??? He enquired. Go and get some sleep... he suggested in addition.

We came back to our respective rooms. On the next day night I was in Nila’s room in front of his Laptop with facebook logged in.

Wow!! I am seeing the most beautiful face of the universe – flawless and lovely. It was her – my lost love.. Kabbu..My Kavita...

In a while, I regained consciousness and came out of the very pleasant Trans.

What?????...and How????...my eyes were asking.

My friend Nila explained me....” I had to write a small MATLAB code for this...and it had to collect your friend list and their friend lists and theirs from facebook until it reached its destination...and yeah..I had to remove some of the unwanted mutual friends to have a matrix of less order so that diagonalization would be easier...” Finally, I sent her a friend request.

Next day morning I woke up with my phone beep...It had two notificationsone fb notification that said now you and Kavita Srivastav are friends, say hi and another news buzz facebook is alleged of leaking personal data...

I laughed and turned on my PC and started typing the next story of the series, Love Aaj Kal.....!!!!

Love Aaj Kal 3

It’s not like that we have never fought before.

Theory and experiment are the two wings of the bird what we call as physics. But, the collision between these two things is obvious. Nevertheless, a good thing is that always these two wings crash to give a new direction to fly ...to solve some unknown mystery. Mr. Nila being the eminent theoretician of IGCAR and me as a newly joined experimentalist, very often fight over physics. Of course, it would not be as crucial as the imaginary fight between Richard Feynman and Nicolas Tesla or that fight between Stephen Hawking and Elon Musk. To make this imaginary fight real, Mr. Nila decided to invent a unified theory to solve the time-space puzzle and I decided to give my contribution by making the Machine that would work on his theory and more importantly it could do something more spectacular than time travel.

But, I was afraid that it would never happen. Because we fought for a girl...the recent social media sensation... Priya Prakash Varrier....She could break our friendship with a single eye wink. Now our path is separated but the destination is same. For the first time the theory and the experiment had to work for the same goal but without the help of each other. We planned to go to Kerala to show our potential.....With rising of the Sun the most awaited day began...and we were sitting in the same Bus on nearby seats...Suddenly, from the front seat Mr. Santosh peeped his head out and asked.... “Hey what about yours Love (??!!) “Aaj Kal.....Mr.Nila started singing.... “ tere mere pyar ki charcha har juban par....” I joined him....We were on the gray colored DAE bus and our goal was same, IGCAR to solve a common problem with the help of each other.

Love Aaj Kal 3.999

Same time, same place and the same people. Saturdayat Iyer shop... Mr. Nila, me and Mr. Iyer. It was

happening since the last three years and we three were meeting at Iyer shop exactly at 2 pm after lunch...Mr. Nila used to explain this phenomenon with entanglement effect...whereas I proposed the resonance effect based on our respective fields of research...However, later on, we realized that it was nothing but compulsion from our biological clock....

Anyway, last Saturday it was specialspecial because the so-called entanglement or resonance was never going to happen in future....Because Mr. Nila left IGCAR underwent an irreversible phase transition to Dr. and joined another research institute.....

Today again a Saturday had come after precisely seven days. Time was 1.50 pm and I was in electronics lab and trying to simulate a universal resistance which can fit into any resonance circuit...but the phase difference between my heart and brain was increasing with high speed...because it already had been twenty-four hours I had sent a hangout message to someone and waiting for her reply...Anyhow, the gray color on her account had not cared to turn green yet...so she had not seen the message. Hangout is a wonderful way of communication invented by modern people to ruin all the excitement. Being a 90s kid, sometimes I feel proud to be a part of the excellent journey seen in the field of message transmission in last twenty years. Though encrypting symbols on the wooden desk in school was not inspired by the symbols encrypted in the caves.... even I too had experienced that in my school days.....

In that kind of complicated situation, my brain was doing some time travel and thinking about all the discussion we used to do during our Saturday meetings and trying to find their relevance to that situation.

Once Iyer was telling his love story!!!!

“Love Aaj Kal..has no value.. Have you heard about Last love??? This definitely happens once in a lifetime to everyone....That also happened to me and now I became heartless.”

Mr. Nila was looking at me to listen the as usual answer I used to give in this kind of situation.. “Ha..Ha.It is totally Impossible...we never give our “Complete Heart” to anyone. We usually give half of our heart..and then other half undergoes cell division in its due course and it again becomes a complete one....” But that day I did not reply anything.., because it was the Iyer...

But I think., Iyer Hypothesis was correct...

Oh.. Hurrah..what happened..yes I did it..just now I made the model for the universal resistance....

The silence of the lab was broken by a penetrating beep sound from my computer....the most awaited answer in Hang out I guess...

I jumped to my PC..

Oh..No, all my excitement vanished, It was a message from Mr. Nila...He was telling that he succeeded in entangling two extraterrestrial photons...Good..good for him..

Oh, Ya.... one more beep came from my PC..No man again it was Mr. Nila...and he was telling “ Want to go for a tea??”

I paused for a moment..I looked at the door ..I felt someone was waiting for going for a tea....But There were no one.. By that time I realized that our Physics knowledge was really limited to make the Resonance or the so called Entanglement real .

I replied to Mr. Nila, “ Ya, Want to go ...But Iyer has stopped coming on Saturday.”

My Wristwatch was beeping and the time was 2 P.M, Saturday.....

(to be continued.....)

.....The End.....

(Hum Hai Rahi Physics ke Phir Milenge Chalthe..Chalthe)

-BINAYA KUMAR SAHU

The End....

“Everything will be okay at the end, if it is not okay it is not an ending.”

This was nothing new. I had come across this so many times in my life. But it's a nice sentence to start a diary. Room No. 34 (B), 3rd floor, Maulana Abul Kalam Hostel, Pondicherry University,... night 2.30 A.M. The evolution of physics that I had witnessed in Last fifteen year was as cool as the Mandel's evolution. Up to my fifth standard, there was no sign of Physics in my chaotic life. It entered into my life as a single book chapter in class 6th. Whereas it occupied a whole book in 8th standard and thickness of the book was keep on increasing by the time I reached my intermediate. Finally, a complete room was given for the sake of Physics during my graduation, and now a whole building was going to be dedicated in the name of Physics. Isn't it really fascinating?? But in that situation the Diary I found in the newly joined, Hostel room was much more fascinating for me. A diary with a red cover and the name was Sandeep Reddy, Anantapur, Andhra Pradesh, M.Sc. Physics (2010-12). I thought of not reading anyone personal diary...but that instinct got suppressed by the curious me..and I just started flipping the pages....

“Everything will be okay at the end if it is not okay it is not an ending. But the word okay is just a relative word for me. It may be the aspirant of many people to live an Okay type life but for me, it is always exhausting. There was no strong reason for choosing physics. I just took it because I want to run away from someone...or something....or more specifically from myself...I preferred physics because one can solve the problem by using certain law.. whereas life..ha..it has its own unpredictable laws. When you feel confident that you start understanding it, life will throw you one more mysterious puzzle to solve...Moreover, there is no correct answer for any of the question...I am not very fond of Diary writing...But nowadays really something erratic is happening in every moment..I feel like I will become mad..I want to remember the whole sequence whatever is happening to me. I want to keep track of myself. I keep on seeing the same dream every night...a dark night followed by a very big sparkling sphere...some short of strong radiation and it is causing a mass demolition....A Brahmin....with a glorious face.. he is trying to communicate with me.... some kind of mantra he is chanting.... I am feeling that I know all of this.. but I am unable to recall....Again he is showing some type of Kawaz. I am feeling hopeless and restless..Then suddenly I am feeling as if I am in someone lap..I am trying to see her face but I am unable to do that..I am sure that she is not my mother..but a quite similar. In her lap all my worries have vanished. She is telling, “ Don't worry my dear everything will be fine. Let's the time come you will understand everything. Don't be restless..and you cannot run away from your destiny ..you have to accept it...”. This is the

only thing I wanted to run away from. I don't want to be something.. I don't want to be someone...I don't want to create any mark... and suddenly a group of warriors, well equipped with some different type of weapons are coming to attack me. and again the same Brahmin is coming and giving me a sword and telling me to fight back..But why ..why should I fight?? I can see a specific symbol of on the arm of the Brahmin..This symbolized the sign of the Sun. Is it a dream?? Or really happening with me. I am tired. I am unable to judge what is happening. I have to talk to the professor from my university. He is the only one understanding what is happening with me?”

I paused reading and thought, “Oh ..It is really interesting and cool. What a write-up..Anyhow what I had to do with this?? I was doing Physics..not because of any philosophical stuff..I couldn't crack IIT and the oblivious choice was B.Sc. If I remembered correctly how have I chosen my B.Sc. subject? I made a list of all probable subject and started doing some short of Akad Bakad Bomay bo..Assi nabe pure so....Ha..Even Home science was there on that list.” I was also running from something...that was a systematic life and I chose Pondicherry University for my post graduation, far from my home town. Because, here no one would be there to disturb me. Oh, no time was around 4.30A.M. I just wanted to take a nap and next day I had to go to meet our HOD and I had to decide my faculty adviser. So I gave an alarm at 7.30 A.M and switched off the light... what..oh no..never....I woke up..a dream.. the same dream that was described in that diary... the same dark night, the sparkling sphere, Brahmin with a Sign of Sun on his arm and some goddess and so much other cool stuff but with a little exception that I had to fight with a lady warrior. Oh, that was the part I really liked... Time was around 8.45A.M. I should never read this diary again. Giving unnecessary dream sequence..Anyhow that girl was cute and I liked her talkative eyes..I tried to remember.. “Have I seen this young, beautiful, brave girl? Oh no, buddy, I think during some train travel somewhere I have seen someone beautiful..and now she is coming to my dream and disturbing me.” Anyhow, I had to fresh up and start the biggest day of my career.....

After arrival at Department of Physics, I just enquired about our HOD.

“Oh, you want to meet Moon moon?” One of my seniors asked me from the backside.

“I don't remember the name of my HOD exactly. But yea,” I replied . “1st-floor Right side 1st room.”

“Ok thank you.” I just knocked on the door and entered inside. But, I surprised to see an old man cleaning the table. Oh, he must be the PA of our HOD. “May I talk to Mrs. Moon moon”, I asked. The old man looked at me and asked: “Why Moon moon??” I told, “Our HOD..Dept. of Physics..umm.. Pondicherry University.”

Still, he was throwing me an angry look as if I was asking him his tracery password. After a long silence, he replied, "I am your HOD.. Dept. of Physics and ya, Pondicherry University. My name is Dr. Ramarao...and yes my daughter name is Moon moon."

Wow, what a nice impression I just created. Then I just talk to him a couple of minutes and my faculty adviser was assigned.

I don't like this concept. Faculty adviser means someone like your academic guardian for the next two years. Again someone would be there to monitor my chaotic lifestyle. Anyhow, I had to meet him. For the second time I read the name of my faculty advisor (Because I just don't wanted to repeat the same mistake what I had done just few minutes back) Dr. Venkatesh, Professor. Pondicherry University, Field of expertise is Nonlinear dynamics. Room no 25 1st floor.

"Are you done???" I heard a firm sound of Moon moon's father form my back side..I told..yap and jumped out from his room.

Next mission was to meet Dr. Venkatesh, one more crazy fellow I guess. I knocked at his door and asked, "May I come in sir??"

"Hey, Mr. Sahu, come in and ya.. don't call me Sir call me Venkatesh." With a pleasant smile, he welcomed me inside. I felt comfortable around him. He was friendly. I could feel a glory was coming from his face. "Would you please fill your detail in my PC?" He asked me.

"Sure" I replied. I opened one excel file and filled all my details. After that we talked for some five minutes then came out from his room.

Wait..wait what I had just seen..what was there on his desktop.. The same symbol what I dreamed last night..a symbol mostly resemble the emblem of The Sun...What was there on the arm of the Brahmin.

I rushed back to his room.. and in a single mouthful of air, I asked.. "Who is Sandeep?"

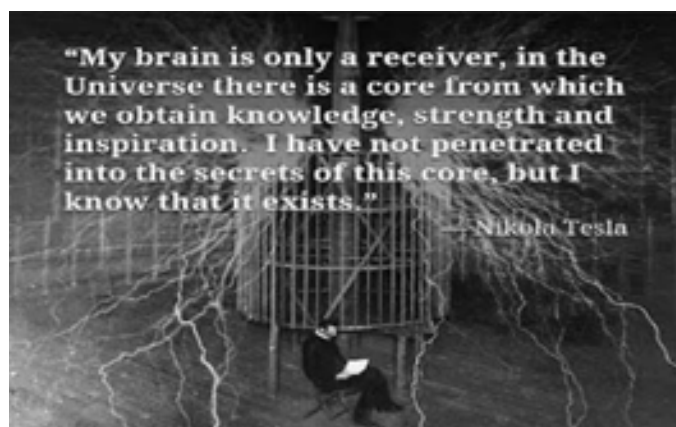
"Who is that Brahmin...what about the sparking ball???"

"Why me witnessing the same incident???.and who are you???"
Who is that mysterious girl?? How all this going to be end???"

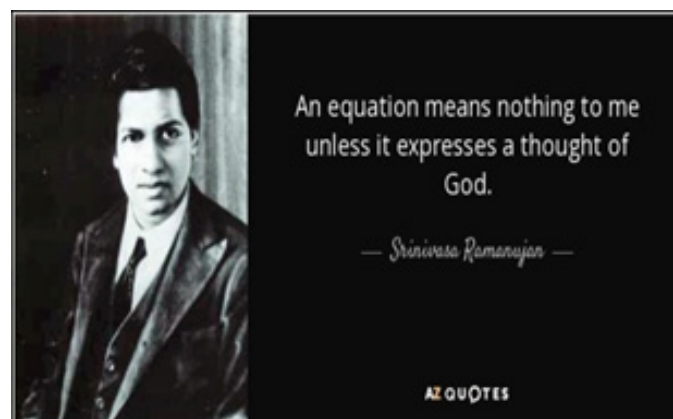
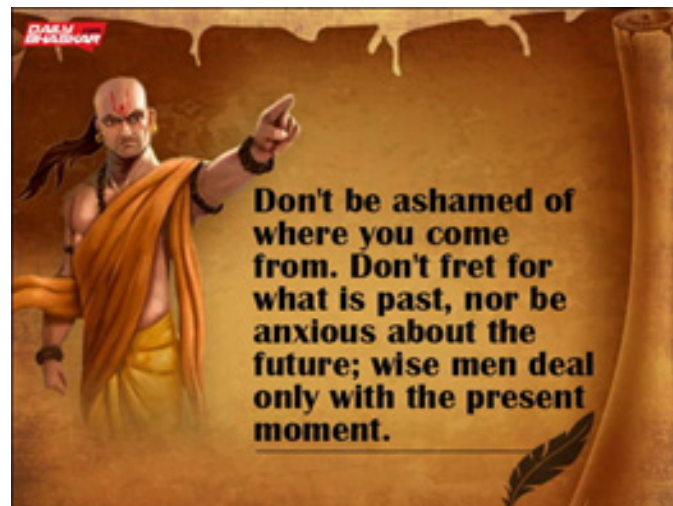
He was same cool and calm and he told "Ya, I was expecting you only..so let's start the real talk???"....

.....to be continued

Some Facts:



Wardenclyffe Tower was designed by Nikola Tesla (The genius scientist who is ahead of his time) to demonstrate the feasibility of wireless power transmission.

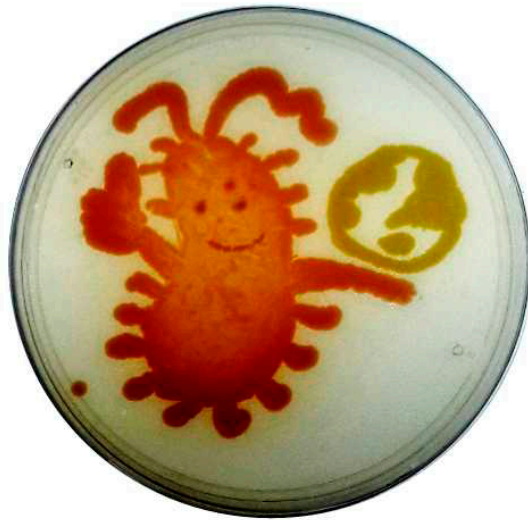


It is believed that Emperor Chandragupta Maurya had found the mythological Kawaz of Karna (One heroic character described in Mahabharata also known as the Son of the Sun..). Under the guidance of the great teacher Chanakya.

Ramanujan frequently said, "An equation for me has no meaning, unless it represents a thought of God."-and he wasn't kidding. Like ancient Indian mathematicians, Ramanujan only noted the results and summaries of his works; no proof was worked out for the formulae he came up with. He straightaway credited his work to the divine providence of Mahalakshmi of Namakkal, a family goddess whom he looked to for inspiration. The mathematician said that he dreamed of the Goddess' male consort Narasimha, who is denoted by droplets of blood, after which, scrolls of complex mathematical work unfolded in front of his eyes.

[This Story I am dedicating to My Faculty advisor Prof. Dr. K. Porsezian (1963-2018), Pondicherry University]

- Binaya Kumar Sahu

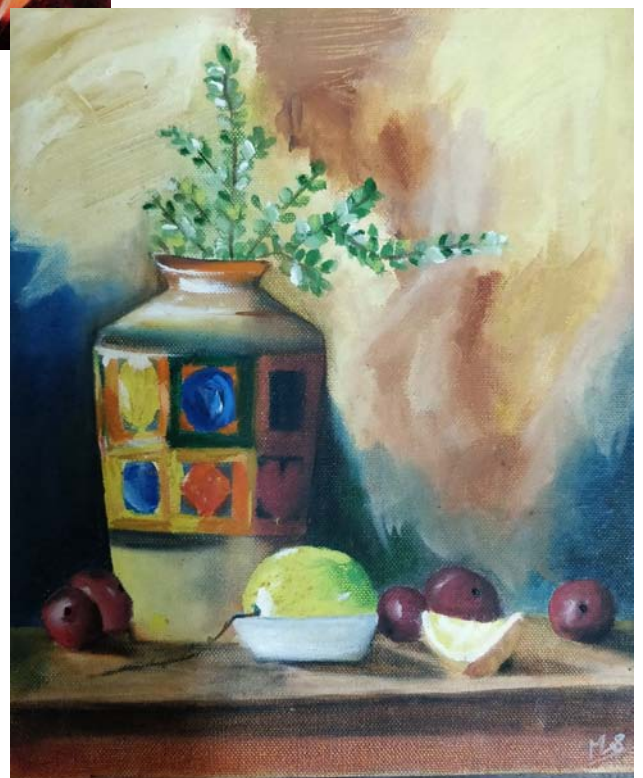


'If you don't like bacteria, you're on the wrong planet'

This is a art using colour producing bacteria (orange color- *Salinococcus marinus* and yellow color- *Marinobacter* sp.) isolated from Kalpakkam seawater.

By,
Rajitha. K
WSCD, Bhabha Atomic Research Centre

Sinduja's Gallery



Mahabhaav | महाभाव |

Expression of emotions is an incredible gift given only to humans. Happiness, misery, fun, care, insult, serve, fear, jealousy, etc. to mention a few. The author defines the term “Mahabhaav” as: ‘To profoundly feel a single type of emotion and be in that emotion without any external disturbances; to express that one emotion’. Note that two emotions never go together but only one after the other. Hence, weight is to be given on the “One” in the definition. Having defined the term, now, since many types of expression are possible by a human-being, within the author’s perception of (finite within infinity) the number of types, the artistic form of expression is considered the one which is mathematically approved. The documented artistic form of the expression is the one that doesn’t not change with time because the mathematics of the art has tied it to the one. Vis-à-vis the mathematics of the unique neural activity. A correct expression in an artistic form of expression of emotion (Mahabhaav) does need a unification of body, mind and comprehensive knowledge of the art. Swami Vivekananda motivates - “Wake up, be strong, be bold and express the divinity within you”; note that the words are strong, bold and express. Further, according to the conviction of the author, the greatest expression of emotion, to be expressed throughout the human life, to consider it

the best experience of the avatar (the human life), is “the expression of love to the god,” for instance, through chanting Bhajans in Hinduism. Here, the best experience is also meant the best utilization of time. Next, a musical melody for western musical instruments, derived for a Bhajan, is presented as an outcome of a Mahabhaav as described above. It is concluded that the term Mahabhaav is defined and as an example mathematical form of it (not unique) is presented. In future, the Mahabhaav is going to be a group of people joined together to express together as ‘one’.

*Acknowledgment: Ms. Abhirami Swaminathan for deriving the musical notes on an emergency need. Mr. Harish Madupu for the idea of putting musical notes in the article which makes it complete.

*Declaration: The article is presented with the personal views of the author.



-Darpan Krishnakumar Shukla

US

We flew here like the beautiful migratory birds do year after year
now it's time for us to make another journey,
to follow our dreams, to make new friends,
to make a difference, to learn new things,
to explore ourselves, to reach new heights,
to find love and to grow in life but never apart.



-TEENA MOUNI C

A Fallen Angel

"We all have two lives. The second one starts when we realize we only have one."

So this article is about that moment when I realized the value of my life. It is about that one experience that changed my life for good. It is the story of a very dear friend of mine who's life has been a lesson for me.

Let's just call her Arya. So Arya is this happy go lucky girl who is supposedly everyone's favorite. Arya loves talking and she is a good listener as well. Arya is the Ms. Caring among her friends. She never says a no to anyone who comes to her for help irrespective of her own personal commitments.

But Arya has a secret. There are times when she completely goes silent. Some days she stays aloof. She leaves her lights on during the night when she sleeps. Amidst all her happiness and cheerfulness her friends could not notice her hidden tears, her panic attacks, her insecurities and her countless struggles to overcome her suicidal thoughts. She was developing outrage issues and dejection, however she didn't realize she required help. She didn't know these were genuine psychological well-being issues. Yet, she endured but without the understanding that she was in reality suffering. The slightest distress would drive her off the edge. Sometimes there would either be fierce outbreaks or she would just sink into her own ruminating tears.

So what exactly was going on? Initially she thought it was her normal mood swings or just PMS. But when things started going beyond her control, she tried to reach out for help. She didn't want to burden her parents with her issues cos she was scared that they will not be able to handle it. And then she thought of confiding in one of her close friends. She told her. She told her that she needs help. She told her that she needs someone to listen to her even if she does not make sense. She told her that she was molested by a man who was very close to her family and she couldn't do anything about it. She told her that she gets panic attacks during the nights as she feels there's someone who's going to attack her in the dark. She told her that she feels suicidal most of the times. She told her that she needs an emotional support.

Arya thought confiding in her friend would make things better for her. But she was wrong. Her friend simply told her that she was just unnecessarily stressing about unwanted things. She told her that Arya doesn't know what actual struggles and hardships mean. She told her that such meagre issues were very trivial and there's nothing really wrong with Arya.

Arya was devastated. She started feeling that maybe her friend was right and these thoughts are just baseless. She started loathing herself for having developed self pity and confiding in someone. She thought maybe she was just stressing out unnecessarily and maybe she should just try to be normal. She tried. She tried really hard. She tried to hold back her tears. She tried to fake her happiness. She tried to let the world know that she was perfectly alright. She tried hard to not pick up the knife that night. She tried to tell her parents how much she loved them and how much she regrets doing what she was going to do. She tried to not slit her wrist that night. She tried. But in vain...

She couldn't... Arya was gone. Forever...

Her death was mourned by many. But there were also people who came up with statements like "only the weak choose to take away their own lives".

One needs to understand that a person doesn't commit suicide because death appeals them. Only if the invisible agony reaches an unendurable level will someone decide to take their lives.

I wish there was at least one soul that could have reached out to Arya and just told her that he or she can understand. I wish I was there with her to lend her my shoulders to cry on. I wish I saw the difference between her stress and depression. I wish...

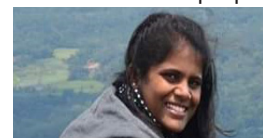
Stress and depression are quite different. And to the normal human eye, those suffering from depression may sound very trivial and unnecessarily over thinking. But deep down, they are helpless even if they want to help themselves. All of us suffer from one form of stress or the other but depression is prolonging, it needs to be handled with care. Also, one needs to understand that depression need not always have a past story of abuse or some horrific incident connected to it. Sometimes, it could be due to some imbalance in brain chemistry, physical illness, poor diet, stressful life events over a prolonged duration of time, grief, loss etc.

My main motive of sharing this with all of you is to ensure that we do not lose another Arya to depression and suicide. If you know of a person suffering from depression, make them feel loved, wanted, cared for and don't just throw them to a therapist. Of course seeing a therapist is the scientific way of coping with depression. But there is way of telling the person that they do need medical help. You can't just say that in the first go. Give them your emotional support in the initial stage. Do not push too hard to know the root cause in the initial stage itself. Just listen. Make yourself available to them, try to understand them though it's hard to. The feeling of being loved, accepted, understood and not alone is crucial than anything else. Once you're sure that you have become their confidante, tell them that you want to make them feel better and it's necessary for them to seek medical assistance. Tell them that they are not going to be judged. Tell them that mental illness is just like any other disease and meeting a therapist is the right thing to do.

"A human being can survive almost anything, as long as she sees the end in sight. But depression is so insidious, and it compounds daily, that it's impossible to ever see the end. The fog is like a cage without a key." I really hope and pray that more and more people are blessed with the insight and ability to identify depression and reach out to those in need. Let's strive towards helping the suffering overcome their falls Let's start talking and discussing about mental health and do our best to break the stereotype about it.

P.S.- This article is dedicated to all the Aryas out there. You are not alone. And also to the souls who are trying to reach out to the numerous Aryas. You are doing great and the world needs more of people like you.

- Deepitha Nelson



Realization

The following is an attempted short screenplay inspired by a true story, which happened, in the life of Muhammad Ali, the greatest heavyweight boxer of all time. Some of the dialogues are fictional but some of them are real as well. This work is my humble tribute to Muhammad Ali, who happens to be the biggest inspiration, not just to me but for millions around the globe.

FADE IN:

(voice over : “ A day, a single day can change your life entirely, a day, when you realize who you are, a day, when you get to know why you are here. I too had one, in Deer Lake. My heaven, the fighter’s heaven)

(Voices in Background: “Rumble young man, rumble. Float like a butterfly, sting like a bee. I must be the greatest”)

DEER LAKE, PENNSYLVANIA – DAY

In Muhammad Ali’s training camp, hundreds have arrived to watch Ali’s training. Ali is sparring with a young boxer. The boxing ring is surrounded by his coach, assistant trainers, other boxers and journalists.

Ali’s intense sparring session can be seen. Both boxers are exchanging a flurry of punches, Ali dodging many of them with his speed and reflexes.

ALI

“Ain’t good enough, kid. Ain’t good enough.”

YOUNG BOXER

“You’re no more the Ali we know. You’re an old man.”

ALI

(playfully making an angry face)

“We’ll see kid. If you’re so sure, try hitting me, you little puppy.”

Fighter tries hitting, but couldn’t reach or hit Ali. An elderly person is closely observing the session, it’s Ali’s coach, Angelo.

ANGELO

“He has still got it. He is my kid.

Fellows, he is gonna smash George. My kid will become champ again.”

CUT TO:

OUTSIDE TRAINING CAMP, DEERLAKE – EVENING

An old man and a cameraman are sitting with Ali. This is Howard Cosell, prominent American sports journalist, a friend of Ali.

HOWARD (facing the camera)

“Good evening to all. We all know that the world is eagerly waiting for the fight between Ali and George Foreman, in Zaire on 30th of October. The big question is, whether Ali can comeback and regain his title. After suspension of three and a half years from boxing during his boxing prime, can Ali be the world heavyweight champion again?. The opponent, the reigning world heavyweight champion George Foreman is young, just 25, has never lost a match in his career. Most of his victories have been knockouts. Will Ali, the self proclaimed, greatest boxer, do the impossible? Let us here it directly from the former Champion.”

ALI

(playfully pulls Howard’s tie and trying to punch him)

“Man, what are you doing ? You’re trying to piss me off or scare me. Ain’t gonna work, you old man.”

HOWARD

(gasping for breath and laughing)

“For God’s sake, leave me alone and talk about the fight, champ.”

ALI

“Fight. What fight? There is no fight. This is not even a competition. You all wondered when Nixon resigned. You all will be dumbstruck when I whup Foreman’s behind.”

HOWARD

“But you are 32 and George is younger, stronger and possibly a better puncher than yourself. You are not the fighter you were 10 years ago, Ali.”

ALI

“Howard, I am sorry to say this in public. But I talked to your wife yesterday, she told you were not the man you used to be “2” years ago. You are still going strong right.”

(Both of them and the people surrounding, burst out with laughter)

ALI

(Ali’s face changes, he looks serious and he starts ranting)
“Listen, all of you, listen. This fight is supposed to be the end of Muhammad. But, the myth that Muhammad is gone, will be busted badly. I know you all share the same thought that Ali will be annihilated in this fight. George is too strong and Ali is too old, isn’t it? We shall meet after the fight. I want to see everyone of you after the fight. I will show you all how great I am. Period.”

CUT TO:

TRAINING CAMP, DEERLAKE – NIGHT

(Gentle breeze, Ali is sitting alone, in a bench. Thinking deeply, uncharacteristically silent.)

A well dressed man, comes in. This is Gene Kilroy, Ali’s manager.

KILROY

(smiling)

“Oh my God, can you believe it, the Champ, the loudmouth is silent. “

ALI

“Shut up, Gene.”

KILROY

“Hey Champ, we have a special guest. He wants to meet you.”

ALI

“Gene, I can’t do it today. Tell them to come tomorrow. “

KILROY

“It’s Ok champ. But they have travelled miles just to meet you. A kid and his father. The kid wants to meet you, Muhammad. But, it can wait. I shall tell them.”

ALI

“No, bring them. I want to meet the kid.”

(An elderly male and a kid are walking in, they can see Ali, from a distance. This is Jimmy and his dad)

JIMMY
(excited)
“Dad, the Champ is here. The Champ is here.”

FATHER
“Yes, Jimmy. Ali is here.”

ALI
(turns around, to face Jimmy, he is animated)
“Yes, the Champ is here. The Greatest of all time is here.”
(Ali’s ranting suddenly stops. He looks at the kid. The kid is heavily dressed, wearing a skull cap.)

ALI
(perplexed)
“Why are you dressed like this, kid?”
(Jimmy’s father was unable to face Ali, he is uncontrollably sobbing)

JIMMY
(weak voice)
“Ali, I have leukemia. I take chemotherapy. I lost all my hair. I just wanted to meet you Ali. I wanted to tell you that you make me happy. Thank you, Ali, for doing that.”
(Ali remains silent for a long time. He gets animated suddenly.)

ALI
“Hey kid, come on. You wanna fight me. I don’t allow visitors to go back, without fighting me. Gene, bring the gloves, let us see how strong is the kid.”

JIMMY
(smiling)
“You old man, you ain’t nothing in front of me.”

ALI
(smiling)
“Gene, this kid is insulting me, bring the gloves I wanna show him who I am.”

JIMMY
“Man, you are in a wrong place challenging the wrong man.”
(Gene brings the gloves. Jimmy wears it. Ali spars with the kid. When Jimmy hits him he acts as he is knocked down, out cold and Gene counts to ten. Gene, declares Jimmy as the winner. Ali still lies in ground as if dead. Jimmy goes to check Ali asking him to wake up. Jimmy embraces Ali and Ali does the same.)

ALI
“Good bye, Jimmy. But before going, let me tell you something. You are going to beat cancer and I am going to beat George. Is it OK?”

JIMMY
“Hell yeah, Champ.”
(Jimmy and his father walk away, Ali keeps on looking at them till they disappear. He again goes and sits back in the bench and keeps on staring at the sky.)

FADE OUT
On screen: After two months

CUT TO:
A HOSPITAL, CANCER WARD – DAY

(Jimmy is seen lying in a bed, pale and weak. He looks very thin and skinny. His father stands beside him. Ali enters in to the room, very silently. He sits near Jimmy and touches him.)

ALI
“Jimmy, hey Champ, its Ali here.”

JIMMY
(Opens his eyes, he is elated)
“Ali, Ali, the champ is here. Dad, I told you. If you ask Gene and tell my name, he will surely come. Dad, you didn’t believe me, see this. Ali, has come, I knew you would come.”
(Father is seen wiping his tears)

ALI
“Hey Jim, calm down man. I am here. I love you. Hey mate, do you remember the promise you gave me. I will be fighting George after a month. I am gonna beat George and you are gonna beat cancer. You got it.”

JIMMY
“No, champ. I am feeling very weak champ. I think I won’t make it. But Ali, I will meet God and when I meet him, I will tell him that you were my friend.”

ALI
(Ali takes his face away from Jimmy, visibly uncomfortable)
“Do not talk rubbish Jim. You are just going to beat cancer, Ok. You are not gonna give up. Champions don’t give up, Ok. Won’t you listen to me, Kid?”

JIMMY
“Yes, Muhammad. I will try my best.”

ALI
Thank you. Hey kid, I have something special for you. Look at this.
(An autographed photo of Jimmy and Ali is shown and given to Jimmy. Tears start flowing from Jimmy’s eyes. Ali seems to be in distress, he hastily bids goodbye to Jimmy and is seen to be leaving out of the room)
(Ali stands in the hospital corridor, alone. He looks far away. Tears flow from his eyes and Ali hastily puts his sun glasses on. Ali is walking away , through the corridor)
Background voice over
(The day when you change is the day when you truly realize that you are not fighting this battle only for yourself. You are fighting this for many others as well. I was not fighting for myself, anymore. I was fighting for Jimmy , I was fighting for thousands of Black people and their civil rights. I put my career online when I said I won’t kill the innocent Vietnamese by taking part in a stupid war. I was fighting for the oppressed, out of the ring. That is why, in the ring, I had to win against George, there was no other go. I am the Greatest.”

END.

NB:

A week after Ali’s visit, Jimmy passed away. He lost the battle to cancer. Ali, defeated George Foreman, in Zaire and it is known as one of the greatest comebacks and greatest upsets in boxing history.



-Radhikesh Raveendran

Man Plans God Laughs

Yes, we all think that we are very intelligent people, enjoying comfortable life, isn't...?

I would say No.... The reason is simple because we ourselves are creating problems with comfort for future. Let me first give a small intro about my plan what made me to write this.

I come from an agricultural family. The time line, when I was about 10 years of age enjoying the village life. Sometimes my dad used to say that, 'some cyclone or depression has formed so it rained and we lost our crop. 'At the same time I used to play in the rain water in the same fields. Once I asked my neighbour uncle who made me study every evening, since my parents were not well educated that, 'what's the difference between the cyclone depression and low pressure? Why is it raining heavily? And why sometimes there isn't rain at all..? He said he answered in general and said, 'you have to study well and tell us about all these things as we are not well educated'.

During that time I thought he just wanted me to study, so simply he is tell something and I left it there.

As per my plan, I wished to study Engineering, as the years passed by and Since I wasn't able to write Engineering entrance I finished B.Sc and qualified PG entrance and subsequently joined in Andhra University. I was trying for M.Sc Physics, which I didn't get for my rank and as per one of my professors advice and since, I didn't want to leave the campus, I Joined M.Sc Meteorology which I didn't even knew what it meant. After attending the First class I came to know that it's related to weather (Atmospheric Science) in which I commented on India Meteorological Department that their forecast never becomes true. Until that moment I didn't knew a course such as Meteorology would exist, and now god started laughing at my

plans. Any how I passed all the courses just to finish my PG. My professors encouraged me to continue in the field of Atmospheric science and finally came to IGCAR, where I used to give forecast which never happened.(This part you are all aware of It, right....? Know coming to the title, 'Man plans God Laughs'; we have experienced hot summers pleasant springs, cool winters, and rainy monsoons in a year. The present hot topic of climate change and global warming as you know it's happening all over the globe and we never bothered about future just we enjoy the present with comforts. Simple example is we became such a lazy that we need bike to go to 13th Avenue to something.

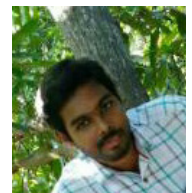
We plan many things for future: I want a good job and lead luxurious life with bike, car and air conditioner at home etc. This leads to adverse situation that we all know is global warming. We all studied about the consequences of global warming in the lower classes. Here in Kalpakkam we experienced floods in 2015, and you might have read in news about the loss of lives and property due to some natural disaster like cyclone, heat wave, cold wave, heavy rain, drought etc. were showing their intensity all over the world.

Now coming to the research point of view since we are researchers there are many reports showing the evidence of climate change.

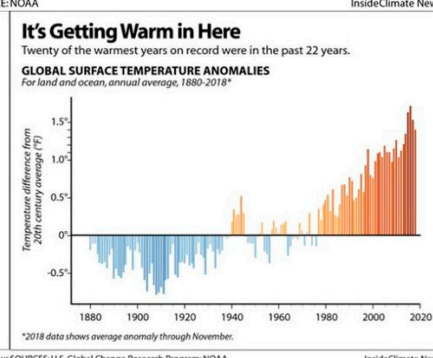
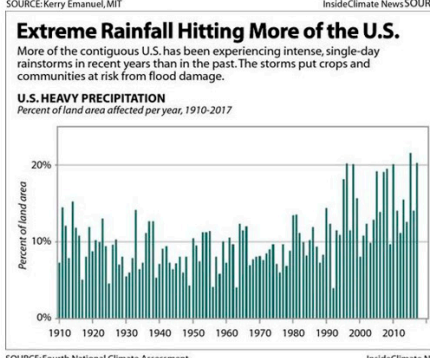
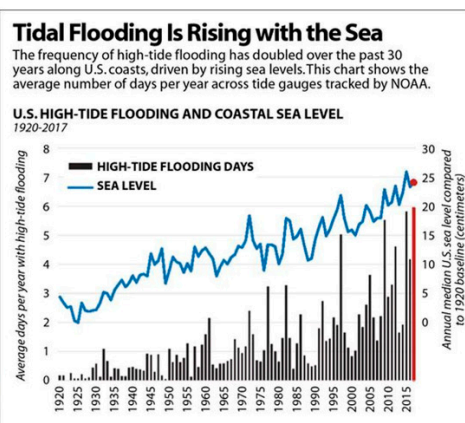
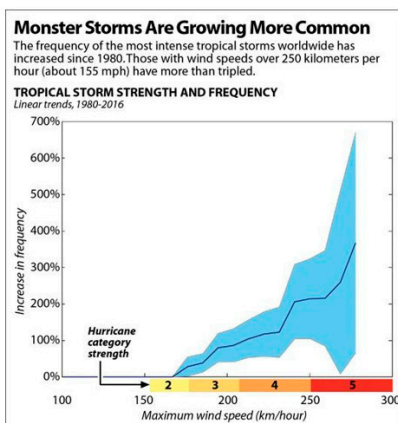
Intergovernmental Panel on Climate Change says 1.5 C warming is bad for us, Sea level would rise about 4 inches more with 2°C of warming than with 1.5°C, affecting 10 million more people. "A picture speaks thousands of words" rather than explaining, you can visualize the following figure about the trends in global warming scenario.

Recently you might have heard about Polar vortex, which created severe cold weather in North America by temperatures drop below -10° C. Not only this many other natural calamities around the world which we are creating thorough burning fossil fuels.

Till now nature protected us like god and what we gave back is the global warming. So now nature started laughing at us by showing its power in different ways that how much a man can do? With its extreme weather events like very severe cyclones, floods, and droughts ect.. So my dear friends, please try to reduce burning fuels , let's burn calories instead of fuels all the time, save trees and water, save our Earth for the future generations. I am proud to say we are all working for the green energy (Atomic energy) to save our nature.



-B. Revanth Reddy



Qualitative review on the discussion between Bat and Dove

Abstract:

Well-known Batman comic character from Detective Cinematic universe meets unknown cinematic universe character from Thangam Cinematic Universe entitled "Doveman". The manuscript is believed to be the movie script based on the comic character named as "Doveman" inspired by Batman movie scripted by Christopher Nolan. Author review his journey while he is finding the character and define its characteristics. The paper describes the discussion between these two cinematic universe characters.

Introduction:

Harvard University offers the diploma course as "Batman Science", inspired by Batman a famous comic character in Detective Comics. Still, the author was known via Nolan's Batman trilogy only. Then the author came to know that the creators were Bill and Bob and not Nolan. Still, the author is inspired by him only as the author was too lazy to read the whole cinematic universe. So the literature reviews mostly within these three movies alone. Since Batman belongs to DC (Detective Cinematic universe), the author created TC (Thangam Cinematic universe).

The author arrived at the name as Doveman, as the competent character is expected to be created as follows. Bat is small, black and also able to fly, so the chosen creature to be relatively big, white and able to fly. Bat prefers to hear more than vision like women, so the symbolized creature should see more than hear as men. Bat symbolizes fear and terror, and then the chosen should symbolize love and peace. Hence the relatively big, white bird, with better vision along with symbolizing peace and love, optimized creature dove is chosen. Hence the comic character is Doveman. Since Batman (BM) was born in wealthy Gotham city as a son of multi-billionaire Wayne family, Doveman (DM) was forced to born on an upper-middle-class family in the economically backward village. Since his family name starts with the third letter before the last alphabet, Doveman's family chosen the letter that sixth letter after the first alphabet G. Batman is a single child of a small family, let Doveman be the last child of the large family. Batman is a lawbreaker, so let Doveman be an expert in law. Batman goes to the top of the hills for training. Let Doveman goes to the training at an island named B, far beyond his village. Batman gets training for keeping the social order, let DM breaks the social order for training. Since Bat is black, white batman wears a black suit, let the black DM wears a white shirt. Since some of the doves are grey, he chooses a grey coat over his white shirt. BM is a bachelor till his mid-30s, so DM has child marriage at the age of 12. BM is a playboy, let DM be the serious family man. Since BM is an expert in martial arts, DM rarely goes to the ground even in his childhood. Since BM seeds the fear in the night, DM seeds the courage in the day time.

Methods and materials:

On one fine evening, Alfred said to Wayne "Master Wayne, why

can't you be a normal man and do miracles as much as you want? Be a family man and enjoying the world with offspring!" Wayne replied, "I am at the middle of the war against the organized crime, Alfred." The warrior has less choice, night warrior has little!" "Then you need to know Doveman from TC, Master Wayne?" replied Alfred. "In the different universe, that hypothetical meeting makes copyright issue Alfred!" Wayne answered. TC is yet to be born to be commercialized Wayne, Alfred told."Ahh, Doveman, an old guy with a reputed law degree in minimal costume. He so contrasted to his education, how the hell an inner circle member be a simple man. The middle-class lawyer from the 'B' empire's colony named I. He was thrown away from the train in another colony called SA. The sub-racist fought against the super racist by receiving humiliation. But he is mobilizing the mob in the humongous amount in the whole empire. Yes, person to be noted down as he could have gained more threat so far. Shall I give him the shelter for his safety? Alfred!" Wayne finished.

"Detective Batman, you are correct about him, except the last line. Why don't we have shelter under his arm? He is being called as father and the great man. Modernist west virtually defeated by his eastern message, love! Do you feel the real threat is organized crime master; really it is the league of shadows! You know about your teacher, the head of the best-trained warriors waiting to burn down Gotham for its filthy treatment over its innocent citizens! You are alone master after you also the league persists and do their job. Master Wayne, Batman can stop drugs and shoot out, not the disaster coming after you! You will be interested to meet him, as your teacher asked his appointment during his arrival to the empire's capital." Alfred replied. "You are exploring all the options to offer the retirement to Batman, Alfred", Wayne laughed. "Yes, indeed", Alfred smiled.

Discussion:

On the specific night that he had an appointment with Doveman; batman informed that he wanted to meet him along with Ras-al-Ghul. Duckwoman, secretary of Doveman said it is fine as Ras accepted it. Then she briefed that strictly no violence even in terms of words in the presence of Doveman.

Ras-al-Ghul asked, "What is the need to have a civilization that fails to treat innocents in a fair manner?" Batman replies "Living beings

do mistakes, the human is relatively advanced; it would be fair to offer some more chances to self-evaluating and correcting itself". Ras-al-Ghul defends "If the shell of the civilization is corrupted, the system could be saved. If the core is corrupted, then it should be de-stroyed to save the rest." Batman stares him and says "The system contains people; we are talking about burning the cities and murdering its people." Ras laughs "Birth itself is bloodshed, Wildfire re-freshes the forest, let the fire purifies the cities. Leftovers need to be cleaned with whatever takes, Wayne". With anxiety, Wayne asks "Then what is the purpose of living, if the mistakes cannot be cor-rected, then there must be no mistakes. Zero mistakes represent cold. The human civilization put into extinct then, do we accept that?". "Mistakes are common, Wayne", Ras continues, we are worried about atrocious crimes against the innocents. Doveman said, "Degree of civilization measured by its ability to handle innocents in a fair manner. Civil society is a group of cultured individuals. An individual could be good or bad. A group amplifies which-ever is attracting in the specific time frame. I believe personally that amplification of good-will of the individual in the civil society can transform the evil nature of the civilization to better condi-tions". "Degradation of civil society is not an instant phenom-enon. It is prolonging the period process. There could be the seed in the past or very strong explosion for the immediate raise. If it is in the start-ing point, pre-civil war condition, it could be possible to save the civilization. We need to draft the law in a relatively transparent manner to account most of the civilian cause. It requires honest executives too. The common men should be trained to question them in a democratic manner", he continued.

Wayne said, "Gotham has law-abiding citizens and honest executives, but somehow, somewhere it is losing daily". Gotham has good people, goodwill. Decades ago, there was an outsourcing policy. That time it was needed as Gotham has fewer labour forces. Gotham has defence manufacturing indus-tries. While Wayne enterprises are selling weapons only to governments, some of them sold to anti-social elements. Outsourcing and automation along with economic crisis peaked unemployment. Car-tels are using those innocents. Organized crime in Gotham is temporary, mostly an economic crisis. Gotham just needs to show the fear against criminals, not even death. I am as a symbol assisting the law enforcement system. I am acting beyond the law to preserve it. While Wayne feeds the families via jobs, Batman saves the people from committing crimes. We need to be beyond our limits at tough times, Gotham has it now, but not forever. Coming years would be positive, as criminals are in jails".

Ras smiled and told "Until you are there, fine. What about after you? A lawbreaker to save the law is the proof to announce its failure, Wayne. To put down the crime in Gotham, you need to do the major crime, by taking the law in your hand. Would you understand that you are the successful symbol and inspiring many to follow your food path? How would be your successor's mind strength? If he is unsta-ble for a moment, he is much worse than

any cartel. At least cartel of any organised crime has un-broken laws. What would you have to offer your symbol holder, Batman? Without law and regulation any system rots, a system has a man with magnificent knowledge, money and dedication are making him a demi-god. If the God is beyond the law, then he is danger than evil, Batman. The only thing that holds you from me is your no-kill rule. It is you supposed to be the threat of Gotham, not any more cartels or even League of shadows".

Brief me, teacher, "What does your league of shadows does need exactly from Gotham not to be de-stroyed? How can I save my people, how much I have to fight, how long will it go? I am ready for eve-rything to be offered".

Doveman replied, "Go to the root Wayne, go to people, and educate the law enforcement activities. Let the people realise their power. Let them stand for them. Until that realization, let the Batman be active. After that Batman is not needed as he can take rest for some time. Dear Batman, fear from a single man or the symbol signifies the single man is a temporary solution for any crisis in the civilization. The solution should be foolproof, any fool can be maintained it. But men with wisdom are needed to change it. You are wasting yourself, Batman. You are much more than what you are, Dark Knight! You are the designer of Gotham's future. You have money, respect, family name, knowledge compassion and dedica-tion. You should be the symbol of day, hope as Wayne as much as possible as the criminals are in jails. You could help to enforce the law by being a part of it rather than an outlaw. If a common citizen can identify the exploitation and start to fight against it, the govern-ment system needs to be honest. The city can reduce its degree of exploitation as days go". Batman replied "Let me try that too, Dove-man. Will you accompany with me for some time in Gotham as it may need for a while!" Ras cher-ished to the Batman, "Gotham has a decade to clear its menace, just because of you, warrior!

Conclusion:

The discussion among these characters offers the scenario of the degradation of civilization and the common men's role on it along with its solution. Gotham is taken as a special case and some of the choices are analysed and the choice of civil resistance against the exploitations are decided to imple-ment via civilian mode.

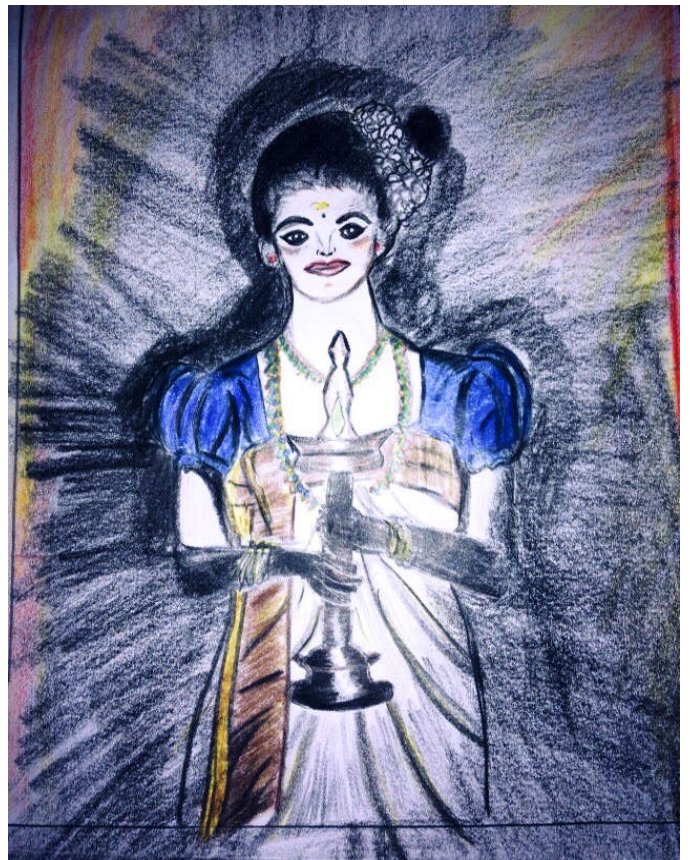
Note:

The script was submitted to Nolan and got the reply that the plot was already taken by Richard Atten-borough in 1982, for the Movie Gandhi acted by Ben Kingsley, Edward Fox, John Gielgud, Martin Sheen and Trevor How-ard.



M. Thangam,
Founder of TCU, TN

Madhura 's Gallery

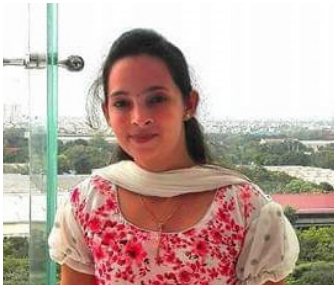




M. Vairavel



By Julie

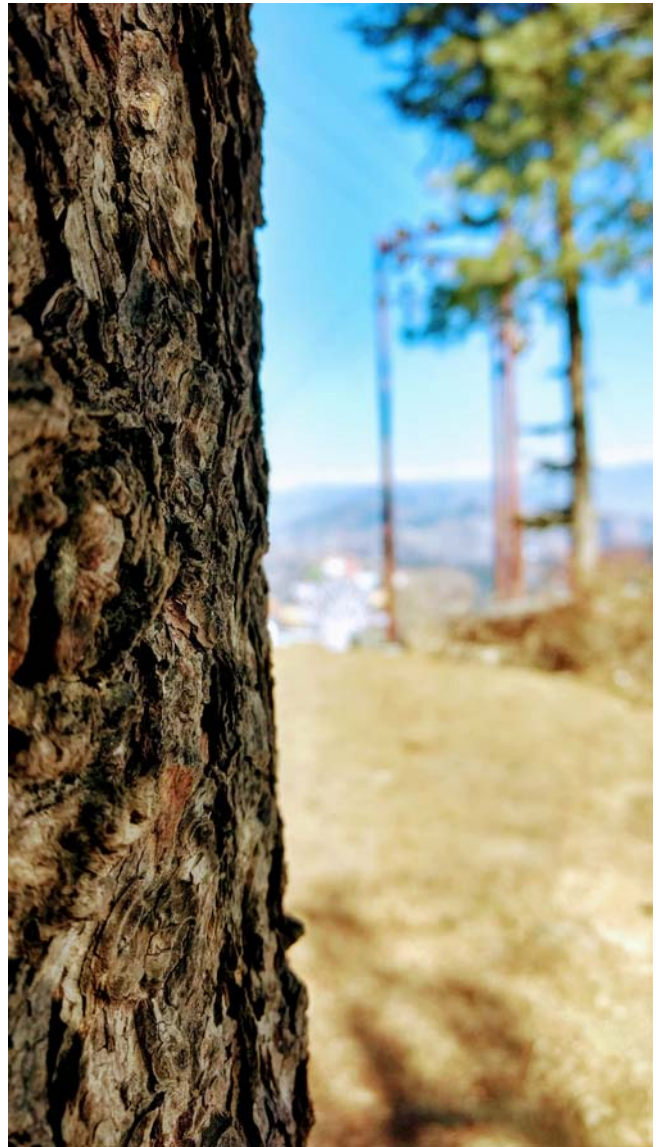


By Sumana





K T Chavan 's Gallery



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Vaishnavi Krupa B.R.

“Beauty lies in the world with Colors and Mind with Dreams”

By Vaishnavi Krupa B.R