



Hari Prasanna

“Every drop of water is as important as every breath we take”

Dear Readers,

It's time for “CARE KONNECT – Compassionately Together” to update you on CARE Campus happenings! We are pleased to share the fifth issue packed with articles, poems and fiction besides intellectual activities viz., Competitions, Workshops, etc...

Happy Reading!!!

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In this Issue

- » Celebrations
- » Workshops
- » Competition
- » Outreach activities
- » Student activities
- » Felicitation
- » Students corner

CARE RECEIVES CLEAN & SMART CAMPUS 2019 APPRECIATION CERTIFICATE BY AICTE/ MHRD IN THE DEEMED UNIVERSITY CATEGORY

CARE's various initiatives in Clean & Smart campus including Bicycle tracks, battery cars for internal movement, Learning Management System, IoT interphase for energy management etc. resulted in CARE bagging this prestigious certificate, after a visit by an inspection team and audit.

This award was announced by AICTE to seek engagement with all stakeholders, primarily the student community to draw their attention towards the immense scope and potential that the technology offers for abstract objectives such as cleanliness, sustainability, environment etc. The rising use of technologies especially IoT, robotics, cloud and automation have immense potential to re-model a campus into a smart campus.

These smart campuses can minimally help in 'forward delivery' by optimizing the use of, inter alia

energy and water consumption in the campus. Smart campuses would construct 'Smart Citizens' – those who are 'future-ready' for the Smart Cities and an even Smarter India. Clean and Smart Campus was also expected to facilitate dialogue and sharing of ideas amongst students, faculty and administrators towards the United Nations Sustainable Development Goals.



CELEBRATIONS

20th November 2019

Child Rights Day

Sixty years ago, for the first time, the Declaration of the Rights of Child etched an universal value in stone by the UN General Assembly, declaring clearly that "mankind owes the best it has to offer to the child." World Children's day is celebrated on 20th November, to raise awareness and to promote welfare of children across the globe. To commemorate this, Chettinad Hospital and Research Institute organized a lecture on Children's Rights. Dr Sughapriya who addressed the audience spoke about the recent policies and schemes related to children's rights, welfare and also spoke on child trafficking and abuse.



26th November 2019

Constitution Day

On 26th November, India celebrates Constitution Day to venerate the adoption of the Constitution. As 2019 marks the 70th Constitution Day, the faculty and students of CARE observed the day with great honour. Considering directives of the MHRD, a live telecast of the commemoration function at the Central Hall, Parliament House was screened for the students as they listened to the speeches of the President, Vice President and the Prime Minister of India. Following this, the Faculty of Chettinad School of Law explained the 'Preamble to the Constitution of India' to the students, who earnestly took the pledge to abide by it



6nd December 2019

Tribute to The Lady with the Lamp

Keeping the age old tradition alive, Chettinad College of Nursing organised a ceremony at CARE, for the XIV batch of 1st year B. Sc Nursing students in reverence of Florence Nightingale. Prof. Dr. Veena M Joseph, Principal, CCN welcomed the gathering, after which the dignitaries Dr B Santhakumar, Dean, CHRI and Dr Prabakar, Deputy Medical Superintendent addressed the participants. Prof Dr T. Balasubramanian, VC, CARE, presided over the function. The Chief Guest for this program was Mrs S. Ranjitham Anderson, Chief Nursing officer, Madras Medical Mission. Prof. A. Rathiga, Vice principal, CCN administered the pledge for the students as they sang the dedication song.



2nd December 2019

World AIDS day commemoration

Department of Community Health Nursing, CCN organised an awareness campaign on HIV & AIDS, in veneration of World AIDS day. The program was organised at Poonjeri, in the rural health centre of Chettinad Hospital and Research Institute. The undergraduate nursing students participated with dance and a Role play on HIV awareness and health education was the highlight of the event.



WORKSHOPS

23rd November 2019

Newborn Resuscitation

Indian Academy of Pediatrics (IAP) - National Neonatology Forum & the Dept of Pediatrics, CHRI jointly organized a workshop on basic neonatal resuscitation. Participants who attended and benefitted from the workshop were the postgraduates and Interns from Pediatrics, OBG, nursing, staff nurses and faculty from nursing college.



27th November 2019

CIIC organizes a meet with Health Care start-ups

Chettinad Institution Innovation Council organized a meet with Health Care Start-up Companies. Supported by the Crescent Incubation and Innovation Council, this program was organized with the intent of encouraging entrepreneurial talent among the youngsters. 11 companies participated in the program.

At the event, there was an engaging interaction between the start up founders and the consultants from various clinical and diagnostic departments of CHRI, faculty from Allied Health Sciences and the Head of IT Department, to explore the possibility of developing medical devices and Artificial Intelligence programs. The novel ideas conceived by the students of CARE were presented to the companies for a possible development product. Dr. Moorthi, Convener, CIIC-CARE proposed a vote of thanks.



COMPETITIONS

3rd December 2019

World AIDS day Poster competition

Department of Microbiology, Chettinad Hospital and Research Institute (CHRI) organized a poster competition at CARE, to commemorate World AIDS day. With the theme "Role of youth in the Elimination of HIV," 21 teams, comprising of students from all streams of CARE participated in the competition. The



students exhibited and elucidated their creatively designed posters to the judges- Dr B Santhakumar, Dean CHRI, Dr Senthil, Professor of Surgery and Dr Vedapriya, Professor of Community Medicine. Trophies were presented to the winning teams chosen as winners based on the creativity, design and presentation. On the whole, this competition served as a platform for expressing the creativity and hidden talent among the students.

5th December 2019

International Day of Persons with Disabilities

Since 1992, the International Day of Persons with Disabilities has been annually observed on 3rd December around the world. Department of General Surgery, CHRI organized a poster competition for the Medical and Dental undergraduate students. All the creatively designed posters by the participants were presented to the judges' panel. Following this Dr B Santhakumar, Dean, CHRI, Dr P Ragumani, Professor and Head of General Surgery, Dr Prabakar, DMS addressed their junior colleagues and students on the predisposing factors for disabilities and cited instances where persons with disabilities overcome them and become successful.



10th December 2019

World Human Rights Day Celebration

A poster presentation competition was organized by the Department of Biochemistry, celebrating World Human Rights Day on 10th December. 25 teams of students of CARE affiliated colleges, participated and displayed ingeniously created posters on the theme "Promoting and deepening human rights culture". The other session at the mini auditorium commenced with the invocation, followed by a welcome address by Dr S Sumathy, Prof and Head, Biochemistry, CHRI.



The distinguished speaker for the day was Dr B Santhakumar, Dean, CHRI who addressed the audience on Human rights and its various aspects such as definition, types, principles of human rights, quotes and the contact personnel in National Human Rights Commission. Prof Dr T Balasubramanian, VC, CARE, in his speech earnestly requested the students not to indulge in any discrimination as all human beings are equal. Both the speakers heartily commended the students' efforts and their artistic talents and creativity. Teams from CHRI, CDC & RI were declared as the winning teams. Dr L Karpagavel, Professor, Department of Biochemistry, CHRI, proposed a vote of thanks towards.

OUTREACH ACTIVITIES

16th November 2019

CHRI conducts Diabetes Screening Camp

Dept of General Medicine, CHRI organised a diabetes screening camp at the neighbouring Jains Inseli Park, to benefit the residents and the working staff. A team of dedicated faculty and postgraduates headed by Dr Mohan Rao successfully conducted the camp in which nearly 100 residents were screened. The newly diagnosed individuals were counselled and referred to CHRI for further management.



11th December 2019

Outreach Committee of CARE reaches out

As the monsoon was active in Tamilnadu at this time of the year, many places in and around Chennai have experienced moderate to heavy rainfall. Keeping this in mind,

the outreach committee of CARE, actively involved in cleaning and disinfecting the surroundings, by clearing waste and dispersion of bleaching powder in the water bodies. The event was coordinated by Dr Prabakaran, DMS, CHRI, Dr Rajesh Kannan, Assistant Professor Community Medicine, CHRI and Dr Koyeli Girigoswami, NSS PO and UBA Coordinator. Students belonging to the Faculty of Medicine, Allied Health Sciences and the NSS volunteers participated enthusiastically in this outreach activity and were ably supported by the administration and support departments of CARE



STUDENT ACTIVITIES

18th & 19th November 2019

Diabetic week campaign

Students of Chettinad College of Nursing showcased a variety of diabetic friendly food in the Diabetes Food Exhibition held on 18th November, an event organized on the 4th day of the Diabetic Week campaign. This was judged by the faculty of nursing and faculty from the department of General medicine, CHRI. On the 5th day of the campaign, students of CCN took initiative for a Mass Health Education drive on the prevention of diabetic complications. The undergraduate students explained the repercussions of diabetes to the patients and visitors at CHRI.



20th November 2019

World Prematurity day – Mime show

World Prematurity Day is one of the most important days in the year to raise awareness of the challenges and burden of preterm birth globally. On account of this, students of CCN enacted a fantastic mime show accentuating the essential aspects of Newborn care. They also displayed many posters to highlight the same.



23th November 2019

Field trip by Chettinad School of Law

Students of Chettinad School of Law paid a field visit to Kelambakkam Police station. Mr R Venkatesan, SHO enumerated a number of criminal activities that the students were expected to be aware of and also gave them a basic understanding of the role played by the police in maintaining law and order in our daily lives. The students were also tutored on how to file a complaint and the subsequent steps to be followed until the case ended. Other interesting topics covered were filing FIR (First Information Report), role of the law enforcement officers with regard to cybercrimes, recent arrests in the neighbourhood. The session included discussions on hierarchy in the Police department, jurisdiction, rights and protection given to women, the juvenile justice system and the advocate- police relationship. The first field visit, coordinated by Dr Shyamtanu Paul, Associate professor, proved to be very beneficial to the students who had a practical learning experience on the everyday functioning of the law.



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FELICITATIONS



ISERD Campus Facilitator Award for Dr K Lakshmi

Dr K. Lakshmi, I/C, Chettinad School of Pharmaceutical Sciences and Member of Chettinad Institutional Innovation Council (CIIC) of CARE received Best Campus facilitator award from Intellectual's Society for Entrepreneurship and Research Development (ISERD India), New Delhi. This award was issued as a token of appreciation towards her effort in guiding the students for participating in IPR Olympiad Exam conducted between 19th and 20th October 2019.

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Sometimes beauty lies in simplicity. And simplicity is being crisp and precise. Various interesting topics such as Pneumonia affecting children, HIV elimination and Dementia besides Commemoratives namely World Diabetes Day, National Newborn Care Week and World Disability Day were addressed in the Guest lectures and CME programs. Let's have a succinct look at what were the talks inside our Lecture and Demo halls between 15th November and 15th December 2019.

Date	Topic / Theme	Guest Speakers	Department & Institute	Program
15th Nov'19	Diabetes and Hypertension	Dr Manohar, Consultant Cardiologist, SRMC	General Medicine, CHRI	CME
18th Nov'19	Diabetic Neuropathy	Dr Pazhani, Consultant Neurologist	General Medicine, CHRI	CME
19th Nov'19	Newborn Care	Dr K. M. Senthil Kumar, Govt. Stanley Medical College	Paediatrics, CHRI	CME
19th Nov'19	Diabetes and Infections	Dr Chendur Nambi, Infectious disease consultant	General Medicine, CHRI	CME
20th Nov'19	Evidence based antenatal and postnatal interventions for intact survival of the premies	Dr S. Ravi, Paediatrician & Neonatologist and Dr Divya Niranjana, OBG & IVF consultant	Paediatrics, Neonatology and OBG of CHRI	CME
20th Nov'19	Oral Hypoglycaemic Agents	Faculty, Department of General Medicine, CHRI	General Medicine, CHRI	CME
26th Nov'19	Cardiac Biomarkers	Dr N. Ananthi, Saveetha Medical College	Biochemistry, CHRI	CME
27th Nov'19	Mental Health and Dementia	Dr Meera Balraj, CMC, Vellore.	Chettinad College of Nursing	Webinar
03rd Dec'19	National Trust Act and Rights for Persons with disabilities	Dr Kailash & Dr Sabari Sridhar	Psychiatry, CHRI	Guest Lecture
04th Dec'19	HIV Elimination by 2030	Dr Chandrasekaran, Medical Manager, SAATHII	Microbiology, CHRI	CME
07th Dec'19	Basics of Biochemistry and Renal function tests	Dr Saravanan, Govt. Stanley Medical college	Biochemistry, CHRI	Guest Lecture
09th Dec'19	Radiological approach to Musculoskeletal Anatomy	Dr. Sibhithran Rajakumar, SMVMC	Anatomy, CHRI	Guest Lecture
10th Dec'19	Meet your lifelong learning partner-Swayam	Dr Lakshmi, Principal, CSPS	Chettinad College of Nursing	Faculty Development
11th Dec'19	Fungal infections of the orbit and paranasal sinuses	Dr Stephen Sudhakar & Dr S. Rajasekaran	Ophthalmology & Otorhinolaryngology, CHRI	CME
13th Dec'19	Recent GOLD 2020 Guidelines	Dr Palanivel, Mahatma Gandhi Medical College	Respiratory Medicine, CHRI	CME
13th Dec'19	Opportunities in Japan for Health Science	Dr Neelam Ramaiah, Director, University of Tokyo India Office	CHRI	Guest Lecture
13th Dec'19	Childhood Pneumonia	Dr S Kalpana, Pediatric, Institute of Child Health	Paediatrics, CHRI	Guest Lecture

STUDENTS CORNER

This section comprises the contributions of students showcasing their talent and creativity in the form of poems, articles, stories, sketches, photographs, etc. As we thank all the students for their priceless contributions so far, we'll take you to the Student's Corner. Let's get started with Poetry.

THE STORM

We've all got tales to tell, where from?

We were all different before the storm.

Some storms, leave us with scars.

Some storms, guide us like stars.

Some are just winds of change.

They have come to pass by not prevail.

These storms may dampen you, not derail.

FOREVER

You can cherish life's moments, never seize them.

Never can you put them in a jar,

Or imprison them in a cage.

For after surmounting a summit, the next one awaits.

Tides of change will ebb and surge

Consequences and complications maybe the scourge

Yet, change is real, change is the truth.

Wishful thinking can do little to sooth.

Forever, a pretty lie, concealing the empty spaces.

Forever, something appealing to the ignorant masses.



- Nandhitha Vairamani
(3rd year MBBS)

Minisha- a budding writer by hobby has penned a story that is being published in 6 parts in CARE KONNECT. Here we present to you, the part 1.

A not so good writer's tale

It's ok...

It's getting better...

I kept telling Moni, my best friend, as she hung up in the call crying. I didn't know, how I was supposed to console her, I felt hurt and useless for being helpless here. **"That's the thing about emotionally vulnerable people when it's about your vulnerability it is hard, when it involves your emotions it's always complicated"**.

All my positive thoughts and motivations paid her no relief from the pain of losing him. Her emotional breakdown (which happened at least 13 times in a single call) left me cursing guys a little more every time.

It was hard to understand this love thing. Perhaps harder for a girl like me to have a messy house, a forced home and a mind forever seeking answers.

Being the eldest, I always felt my parents had forgotten to love me enough, maybe they were too conscious to get things they thought their daughter needs. **Most of the parents are willing to give their children anything, but not that one thing they need the most.** And my parents were no exceptions. But I loved them and I know they love me.

It was the beginning of the summer vacation and I was left sleeping away my days, happily, like I was drugged hopelessly, I'd gifted my whole vacation to my sleep centre, after days of sleepless nights, I spent preparing to get a good score in my higher secondary. **I was tired of being tired all these days.**

I got myself enrolled in an all women's college with Physics as my core subject (B.Sc. Physics). Little did my parents know that I hated Math for no logical reason and loved physics with no relevance. But as of I know I would have hated Physics too, it requires too much brain and a little math. If not for my Physics sir in my tutorial centre I wouldn't have been there.

College was fun, not like the way they show in movies, but fun depends on the kind of friends you endue with, for me it was a "friend" we knew each other from 8th grade and more in school assemblies where we'd happily chill out at the back being the only ones tall as if we possessed some genetically mutated gene.

I had girlfriends in school, under the universal rule (girls taller than 5'7 aren't called cute, they are handsome) in an all-girls school. **College made me feel depressed and that again made me depressed.** I raced between college and my hostel like a lifeless machine.

I always had this nagging feeling and I kept asking myself if I belonged there. Like every science student, I had teachers and family members inspiring me to take up medicine, but I did hold interests in aspiring to be a doc, I felt doctors were cool but.. being more of a nature lover, I didn't want to be held up in a clinic all my life though sociology was my basic interest.

But things happened in between, I thought maybe Medicine is my calling and I soon felt guilty when I started ignoring my instincts drenched with the regret of not giving it a try. After days of confusion and hesitations, I gathered enough courage to be vocal about my aspiration and dad just said a "YES" and I expected a more forceful response, it left me a little confused like he always does.

I felt stupid for all those "made up scenarios in my head". I thought he'll fill me with pieces of advice like you fill air into a balloon and that I'd have no other option than to float hopelessly in my dreams.

I'd got into a coaching centre a popular one, it was all going fine. I had good friends (Pavi and Divi).. a good environment.. and life seemed hopeful...

There was this hyperactive, dusky and a little stout girl named Abee and girls liked her for being funny, I could feel my kind of vibe in her always, life happened in-between and we turned out to be closer than we initially found ourselves to be. I'd opened Facebook to talk to her from home as her basic mobile had only Facebook by default, I had no interest in Facebook and it was mostly Abee who uses my Facebook account seeing posts and videos. I'd opened my messenger to text Abee and found a message from some random guy flash on my screen, it said

Hi, I think I know you; you're that girl from SGA right??

I felt a little creepy and with further investigations and interrogations into his profile, I discovered that he was that one topper I hated in SGA for no logical reason and that he'd received a friend request from account following which he had texted me.

Ok now.. it must be Abee .. I'd plans of blasting her the next day. But before I could even look up at her, she accepted all that had happened and confessed that she liked him and that she was in love.

Seriously?? I kept asking her for almost a hundred times before the first hour was over. Yes, he's so cute, his crooked smile is my favourite.. blah.. blah.. blah I was tired by now.

I spent my whole night trying to find the cuteness Abee was talking about.. zooming in and out... into every angle possible. I'd been talking to him with half interest on daily bases. I learnt that he studied in a boys school opposite to my all girl's convent, and still wondered how I never met him there.

I shouldn't have taken Abee's crush thing seriously you know, I regretted it in my shower that day, after she had crushed on four more boys the same month. It happened that he shared his number and asked me to text him in WhatsApp. Why would a girl like me text a random guy? But then, I did send him a text.

Me: Hi Mr Luna

Luna: Hi there.. Happy to hear from you

"You seem so sweet, I'd love to be friends with you.. Stay in touch," the message flashed.

Weekly texts.. Daily texts.. **And finally an inseparable part of my daily habit he became.**

I can't lie, I liked him but it was way more out of my senses I thought. How is it that you love... ok, like someone who you aren't seeing every day. The last time I remember seeing him was when my physics sir was busy complimenting me for my good handwriting to a group of toppers which had him.

I thought he looked like an alien way back then. I had called and claimed that he was one every time Kanu and Aishu (my friends at tuition) teased me by his name. It wasn't the old me anymore.

There was something about him; it always felt like magic... always.

I started liking him for reasons I never really knew then. I just liked his general existence, I liked the way he made me feel around him, **"He made me feel valued.. not special but valued"**. He was that one person who made my life beautiful by just being a part of it. **"Nothing less than pure magic is what I'd call him"**.

But I always felt like running away from him, running far away from this magic, to a place this universe never found, and never come back.

Maybe I should have done that.. That would have been good.. Good for me.



- Minisha Jaitlin Jayasingh

All of us know how much ability has cell phones to distract us. From just being a mode of communication, mobile phones have developed into a vast platform of entertainment and information, thanks to the internet. Their influence is everywhere, like at work, on a date, meeting up with friends or during family dinner, the usage of cell phones is undeniable. Irrefutably, students are easy victims of both the good and bad cellphones bring. This article is about an interesting experiment by a Professor on his students and their cell phones.

Students and Cell phones - an experiment

A few years ago, I performed an experiment in a philosophy class I was teaching. My students had failed a midterm test rather badly. I had a hunch that their pervasive use of cell phones and laptops in class was partly responsible. So I asked them what they thought had gone wrong. After a few moments of silence, a young woman put up her hand and said: "We don't understand what the books say, sir. We don't understand the words." I looked around the class and saw guileless heads pensively nodding in agreement.

I extemporized a solution: I offered them extra credit if they would give me their phones for nine days and write about living without them. Twelve students—about a third of the class—took me up on the offer. What they wrote was remarkable, and remarkably consistent. These university students, given the chance to say what they felt, didn't gracefully submit to the tech industry and its devices.

The usual industry and education narrative about cell phones, social media, and digital technology generally is that they build community, foster communication, and increase efficiency, thus improving our lives. Mark Zuckerberg's recent reformulation of Facebook's mission statement is typical: the company aims to "give people the power to build community and bring the world closer together."

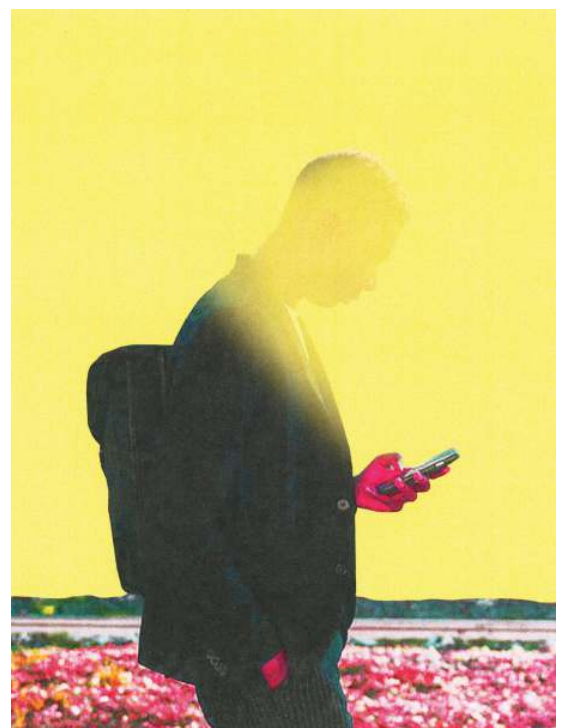
Without their phones, most of my students initially felt lost, disoriented, frustrated, and even frightened. That seemed to support the industry narrative: look how disconnected and lonely you'll be without our technology. But after just two weeks, the majority began to think that their cell phones were in fact limiting their relationships with other people, compromising their own lives, and somehow cutting them off from the "real" world. Here is some of what they said.

"You must be weird or something"

"Believe it or not, I had to walk up to a stranger and ask what time it was. It honestly took me a lot of guts and confidence to ask someone," a student wrote. She describes the attitude she was up against: "Why do you need to ask me the time? Everyone has a cell phone. You must be weird or something."

"One of the worst and most common things people do nowadays is pull out their cell phone and use it while in a face-to-face conversation. This action is very rude and unacceptable, but yet again, I find myself guilty of this sometimes because it is the norm" said a student who also wrote, "A lot of people used their cell phones when they felt they were in an awkward situation, for an example, being at a party while no one was speaking to them."

To these young people, direct, unmediated human contact was expe-



rienced as ill-mannered at best and strange at worst. The price of this protection from awkward moments is the loss of human relationships, a consequence that almost all the students identified and lamented.

Without his phone, a student found himself forced to look others in the eye and engage in conversation. He put a moral spin on it. "Being forced to have [real relations with people] obviously made me a better person because each time it happened I learned how to deal with the situation better, other than sticking my face in a phone." Ten of the 12 students said their phones were compromising their ability to have such relationships.

"Actually I got things done much quicker without the cell because instead of waiting for a response from someone (that you don't even know if they read your message or not) so I just called them [from a land line], either got an answer or didn't, and moved on to the next thing."

Technologists assert that their instruments make us more productive. But for the students, phones had the opposite effect. "Writing a paper and not having a phone boosted productivity at least twice as much. I was concentrated on one task and not worrying about anything else," a backbencher claimed.

Albeit some students reckon we must continue to develop our technology, one of them said "what many people forget is that it is vital for us not to lose our fundamental values along the way."

Another viewpoint of a student who began to see how things "really work" once he was without her phone: "One big thing I picked up on while doing this assignment is how much more engaged I was in the world around me. I noticed that the majority of people were disengaged. There is all this potential for conversation, interaction, and learning from one another but we're too distracted by the screens to partake in the real events around us."

- Ron Srigley

Source article: https://www.technologyreview.com/s/614934/teenagers-without-cell-phones/?utm_source=pocket&utm_medium=email&utm_campaign=pockethits

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This year Chennai witnessed unseasonal rains in the second half of December. During rains, we don't just combat the problems of water logging and potholes but also the rising stench of uncollected waste. Be it urban or rural areas if waste is not managed properly during the rainy season, it may result in devastating effects as water pollution, which leads to many water-borne diseases. Here is an article on waste management and how IoT (Internet of Things) enables smarter ways to do it.

Chennai Rains: IoT enabled smarter waste management

Schools and colleges were dosed and the local media reported water logging and traffic bottle necks in several places. Clogging of drains and choked bins contributed to the water logging in several low-lying areas, besides creating a stench and possibilities of communicable diseases.

In the Swachh Survekshan 2017 ranking, released for 434 towns and cities across the country by the Union Ministry of Urban Development in May 2017, Greater Chennai Corporation, with a population of 67.3 million, was ranked 235

owing to inadequate waste collection, lack of scientific solid waste processing, delay in construction of toilets and poor communication to bring about behaviour change. The team visited the city a few days after Cyclone Vardah. Everything was in shambles. Many of the markets, places of worship and public places, including the Marina, were not clean during the visit of the team. Chennai received a score of 916 out of 2000. One of the main causes for this can be attributed to waste management, amongst other factors.

A Citizen Consumer action and civic group article states Chennai has the highest per-capita garbage generation rate in the country at 710 gm per person per day. In the early 1990s, awareness about responsible disposal of waste began to dawn on Chennai. It was the time a NGO founded by a social activist, offered to go door-to-door to collect garbage at set timings.

The Chennai Corporation privatized garbage clearance in the year 2000 and gave the contract first to a Private firm for 5 years. The success with this PPP motivated them to continue private services and switch to two other firms. But it turned out that these service providers were not been as successful as the first. The incumbent GCC Commissioner has stated that privatisation may not necessarily be as efficient a remedy as people assume. He remarked that solid waste management system has been "completely messed up".

Let us face it, monsoon happens every year and waste happens every day irrespective of rain or shine. Every- supply chain must deal with waste management, enterprise or cities. That's where the waste management companies and solutions fit in. However, they have been hampered by inadequate information flow, which leads to another form of waste - that of time and energy. Now, IoT is enabling smarter solutions, and rapid-application development (RAD) platforms make it faster and easier to implement effective waste management.

For example, in western countries, service providers have developed a software solution, creating a smart waste management application based on analytics and mobility. Bins with sensors pick up how full the bins are; and through IoT convey the information that optimizes the pick-up time to - when they are full but not yet overflowing. Bluetooth Beacons provide location trackers that can ascertain the bins' locations to avoid any confusion or delay for pickup. This system increases efficiency, lowers logistical costs, and reduces waste decomposition and carbon foot print. It also automates the process of identifying the best route for the day's waste collection needs and the generation of bills by the service provider based on real time data on the work done.

Chennai Corporation and authorities can work closely with their service providers to impress upon them to integrate IoT solutions as a long-term benefit. This initiative could also go beyond waste management to disaster management and be a part of IoT for Effective Disaster Management, as outlined in a white paper by The Digital India Action Group (DIAG). DIAG is a think tank established for ideating and monitoring policy initiatives to support the Indian Government's mission of Digital India. The white paper aims to create awareness and appreciation about the potential use and application of IoT for different aspects of disaster management that makes cities smart.

In the last 2 years (2015-2017), we have seen Chennai flooding thrice. A Rs 1400 crore plan has been announced for Chennai under Smart Cities Mission that essentially cover infrastructure – Roads, parking etc. The above initiatives should also be considered as they would also fit in with the Chennai Smart City as a part of Central Government sponsored Smart Cities Mission and enable Chennai to move up in the ranking from 235.

— Dr T. N. Swaminathan

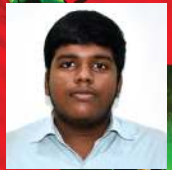
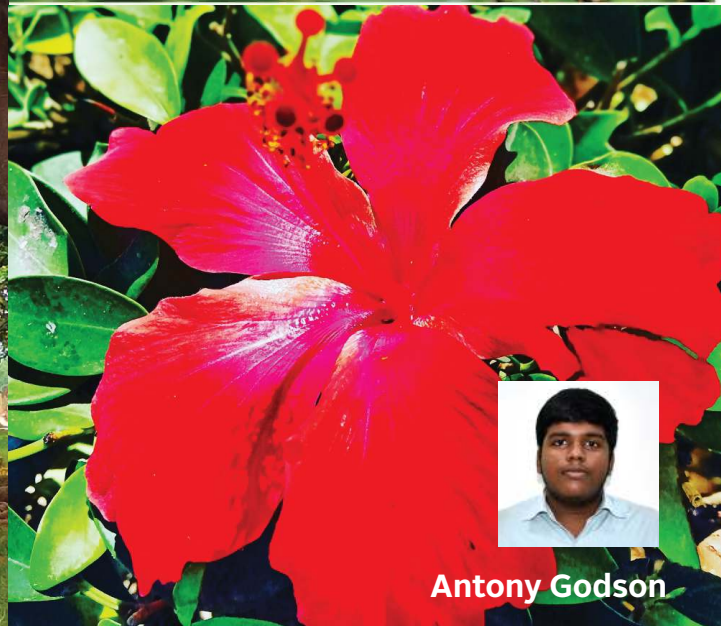
Source article: <http://www.dtnext.in/News/City/2017/12/03232946/1054233/Chennai-Rains- IoT-Enabled-Smarter-Waste-Management.vpf?TId=112132>



Hari Prasanna



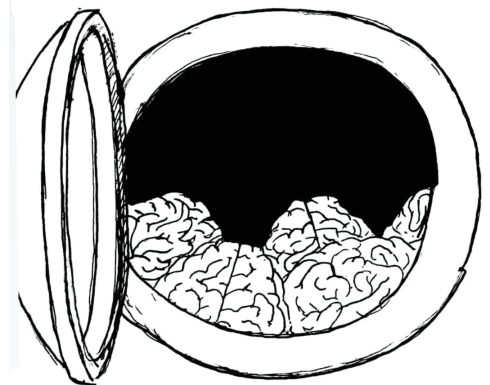
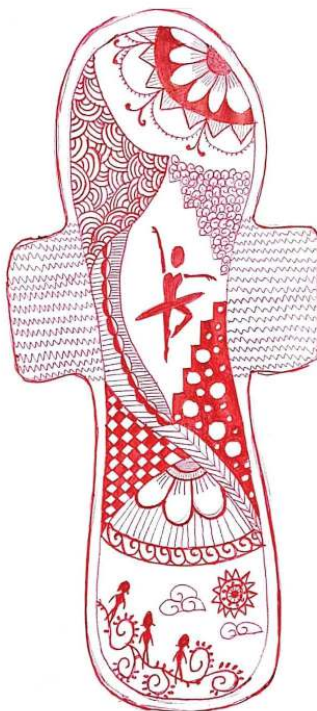
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