Passage to a New Life

राष्ट्रदुत

#COFFEE CHRONICLE

The Birth of the Frappuccino

Understanding the Frappuccino's place in beverage lore



there experiments in pursuit

of novelty and quality. He's

been known to freeze coffee

beans to preserve their vin-

came the "iced cappuccino,"

he told me over the phone,

recalling how iced coffee

drinks sprang onto the mar-

ket in the mid - to late - '80s as

a way to compete with soda to

entice the youth, "Cold and

sweet" was the name of the

game, and coffee poured over

(or blended with) ice was pop-

ping up at chain coffee shops

as well as independent cafés

took a trip to Seattle, then the

national hotbed of coffee cul-

ture. He needed to solve the

"summer slump" that hit his

cafés every year when the

Harvard kids went on break.

That's where he tasted his

first iced cappuccino and

from then on, he was trans-

fixed. It seemed simple

enough to reproduce: It was

basically just milk, sugar, and

coffee blended in a granita

machine to prevent it from

gave [the idea] to my market-

who perfected the recipe and

gave it a name." Howell says.

"The minute he said.

'Frappuccino,' we said, 'Oh my

Howell acknowledges that

the Frappuccino was a ver-

sion of the iced cappuccino

already popular on the West

Coast, but his version

changed the game as the first

of its kind in Boston: It simul-

taneously boosted coffee sales

in the off season and carved

out a new niche in the East

Coast's caffeinated canon, "By

adding Frappuccino." he savs.

"we made summer equal to or

better than any other quar-

Then came the mermaid.

Frappuccino, Meet Starbucks

By 1992 - the year Howell

thought he'd solved his "sum-

mer slump" - Starbucks had

already gone public. The year

prior, it had 119 locations; by

1993, that number had nearly

Frappuccino comes in. In

1994, Starbucks acquired

Howell's stores and trade-

marked the Frappuccino. By

the following year, Howell

says, "Frappuccino, as we

knew it, disappeared off the

face of the earth," replaced by

"It was not our drink," he

lamented. "They were doing it

in blenders, which had far more flexibility to add things-

which we didn't do," referring

to additives like xanthan gum

mono- and diglycerides and

Howell has mixed feelings

about Starbucks's coffee revo-

lution. "You can't take away

the fact that they truly profes-

sionalized the ways that cafes

were run," he says. But lost in

the process, was the original

Frappuccino recipe, which he

stands by as the superior bev-

a Starbucks creation

That's

where the

God, it's perfect.'

ing director, Andrew Frank,

"I went back to Boston and

Around that time, Howell

from coast to coast.

Before the Frappuccino

touchstones Massachusetts the 1990s - Napster, Good Will Hunting, Marky Mark and the Funky Bunch - none have endured like the Frappuccino. That's right: The original whippedcream-topped wonder slurned around the globe didn't unfold some Starbucks test kitchen but rather at an inde pendently owned café one summer in Cambridge, Massachusetts.

Behind the Frappuccino, is a visionary named George Howell, a name virtually unknown outside the coffee industry. But who was this man who gave rise to the biggest beverage craze since the old-fashioned soda fountain? And what does he think of the Frappuccino today?

Frappuccino Forebears

understand Frappuccino's place in beverage lore, you first have to know about the soda fountain. another Massachusetts-born In the mid-1800s, a drug

Lowell. Massachusetts, became the site of the first concession counter with an ice shaver



that automatically mixed in cold cream and syrup - and voila, the ice-cream soda was born. It became all the rage. New England was suddenly the soda fountain epicentre of the country. In many ways, the rise of

the Frappuccino echoes that history. The soda fountain and the

coffee shop both serve nonalcoholic drinks, are places where young people can gather to kill time or flirt, and are generally seen as more 'wholesome" or family friendly than, say, the town pub. "The soda jerk and the barista are parallel roles-young and charismatic, serving fancy concoctions with a flourish. says Peter Giuliano, executive director of the Coffee Science Foundation and chief research officer for the Specialty Coffee Association. In other words, the Frappuccino didn't invent the wheel, but it may have spun it

The First Frappuccino

George Howell looms large in the coffee world: His legacy is a laundry list of totally outLater in the evening this young lady in OT dress came for a visit. She introduced herself as Dr. Nirmal. She was quite sweet and spoke comfortingly. She had seen Simran's chart and knew all the medical facts about her. She had her own examination to do. She asked Simran to open her mouth wide. The teeth were examined to see for any loose ones. She was also taught to do deep breathing. Dr. Nirmal explained that she would be giving a general anaesthesia so that Simran would sleep through the operation. She also explained that when Simran would wake up she would feel very parched and would find a tube sticking out of her mouth. This tube would be connected to the wind pipe at one end and a ventilator at the other. She reassured Simran that the tube would come out as soon as she is able to breathe well and all her vital parameters are normal. She was so reassuring that



AIR BIT it happens here...

Dr Goutam Sen CTVS Surgeon

he week had been hectic if not chaotic. The atmosphere at home had changed from dismal gloom to bright bloom. The family was bouncing back to normal although there was a major heart operation for Simran in the near future.

The appearance of the 'miracle money' had changed the atmosphere. When Simran's mother Neetu asked Sarabieet where the money had come from, he gave an enigmatic smile and said - 'All you need is to have faith in 'Rab' Neetu asked him jokingly, if he could go back to the tree under which he found this 'pot of gold' and see if there was some more. She was hard pressed this month. The grocery bill was still to be paid and there was very little left

in the kitty All Sarabjeet said was -'Rab finds a way to solve problems of all his devotees. You go and find your own pot'.

His demeanour had changed He was not moving around with hunched shoulders and drooping head. He stood tall. He did not just stand tall but even looked taller. His erect bearing and his sparkling eyes were a pleasure to watch. The message his body language gave was a challenge - Come one! Come all! I am ready to face whatever challenge you throw at me! In fact, he glowed with unprecedented confidence.

The doctors had called Sarbieet and Neetu for a final meeting. They wanted to explain all the risks involved in the operation. They also wanted to add hope to their lives by showing that the risks were small and many others had gone through the operation without a hitch. They even said 'It has a one percent mortality'. (This was way back in the 1980's. Things

Simran did not have any apprehension. once she recover after the opera-

> ed investigations would show them up in the years to follow. The Consent

Unfortunately, all this was heard by Simran's parents inattentively. It entered one ear and went out through the other one. They were just happy that Simran was going to get better after the operation. There were a sheaf of forms to sign. The consent for such operations had become voluminous and

are at least 5 times better now!). It was a bit worrying because Simran was just ten vears old and tion she would grow tall and the valve that would fit her at this age may become inadequate at a later age. That could warrant a reassessment at a later date and may even require a second heart operation. The heart had already enlarged considerably in size. I was hoped that, it would remodel itself and regain a normal shape but there was always the worry that the rheumatic fever may cause damage to the other three valves. Although undetected at the moment, time and sophisticat-

matter of discussion amongst the treating doctors. There were two types of valves available and the choice had to be explained to the parents. The ideal valve was yet to be manufactured. The God given one was such a marvel of engineering. No valve devised yet in the last 60 years comes even close to the God's design. The manufactured valve had many prerequisites. Such a valve should be closest to the native valve in structure and material. It should not require any further medication to give it a long life. It should not require any adjunct medication to

#SURGERY

very detailed. Gone were the days

of complete faith in the surgeon

when a one line consent was

'Do what you think is best!'

or seen was mentioned. The con-

sent was required with full knowl-

edge and comprehension. These

were the days of Medico-legal

cases and consumer courts. The

doctor's though confident were

warv. They had been burnt too

often in the past. Friendly faces

became aggressive when things

best suited for Simran, was the

sustain itself in Simran's body.

Mainly there was this issue of a

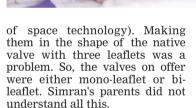
What kind of valve would be

Every complication imagined

life, to be lived with anticoagulants (Blood thinners) to prevent clotting of the newly placed valve. The anticoagulants has interaction with many drugs especially analgesics. All leafy vegetables were banned lifelong in the diet. No more of those lovely chatnis. So ideally, the first thought was to use the God-given valve. Many people pass away from other caus-

es who had healthy hearts. The healthy valves were harvested and preserved with chemicals and antibiotics. They were then mounted on a Dacron covered wire frame. In some circumstances, they were even put in without the frame. There were many impediments. Such valves had to be harvested fresh. Often consent was not received for such retrieval. The methods of preservation gave a short shelf life. Most centres did not have the stringent facilities required to prevent infections. They had structural failures and needed re-operations. The doctors who were operating on Simran were not offering

this option. Many mechanical valves of varied designs were available. This fact by itself proved that none offered was perfect. The mechanical valves were made of various materials. The metallic material (to prevent chelation). It had a strong Dacron sewing ring and the leaflets were made of a pyrolite carbon (a boon as a result



In good faith, they plainly said: Choose whichever you think is the best for our Simran. Of course. Simran was too young to be asked although she would be carrying that valve within her for the rest of her life. The doctors would have loved

to give her a biological valve, harvested from a pig's heart (It is amazing how similar the pig's heart is to that of a human). There were some valves constructed from preserved calf pericardium. All these functioned well in the early phases but degeneration and calcification within a decade in voung people was a major issue. Simran was being offered the best mechanical valve available at that moment and the discussion ended there.

A Flurry of Activity Once admitted Simran found

many other patients with similar condition in her ward. Her winning smile made her new friends in a small while. Some of the patients were in worse condition than her because of the delay in seeking help. Simran needed intensive medication for a short period before the surgery to optimize the heart condition. The young doctors were attentive but seem to have little time for small talks. The big doctors were usualy just concerned about the medcal status and looked more at the charts and investigations than at Simran. Out of all the doctors, Simran liked the tall and bald one. Whenever he stopped by her bed, he would at least smile at her and

put his hand on her head in a loving fashion. The nurses in the ward too seemed to dote on him.

The day before the surgery the

pace became frenetic. A huge

number of blood tests were done. Simran was given a Betadine bath. This was an iodine derivative which was helpful in removing the bacteria on the body surface. Normally such patients require a total body shave but our Simran had no body hair! She was given a special dress to wear. It was an oversized gown with tapes in the back to bring the edges together. It was ugly and Simran felt as if her back was all naked. Wearing no under clothing was embarrassing. The design was such it could be conveniently taken off in the operation room. But it was a challenge to the modesty. The kind nurses offered a sheet as a wrap-around to cover up the bare parts.

In the evening, there was a flurry of activity. The case files of the patients, to be operated the next day, had to be ready for the Chief's round. Any hitches had to be sorted out. One of the residents came to Simran and asked abruptly where

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The parents were asked to call other people, from friends and famlly, to see if any other donor could be found. This was quite troublesome. Sarabjeet had left his family behind in Bhatinda when he came o Study in Delhi 15 years ago. Γhere were no connections now

her parents were. An announce

ment was made on the public

address system and soon Sarabjeet

and Neetu were at Simran's bed-

Simran's blood group was O-ve.

This was a rare group and since

four bags of this group had to be

kept ready before the operation, the

resident asked the parents to go to

the blood bank. One of the parents

was likely to be O-ve. The blood

bank was always in short supply

Blood test showed that

Neetu was an orphan. The few college friends and neighbours were hard to convince. All those stories about weakness and loss of potency were repeated as an excuse. Fortunately, Neetu was O-ve and she was able to donate one bag. She pleaded with the blood bank people that they should take more blood from her as she was healthy. Of course, they did nothing of the sort. Fortunately, the bank kept a list of O-ve donors and they were able to call some of them. They came willingly and that hurdle too was

young lady in OT dress came for a visit. She introduced herself as Dr. Nirmal. She was quite sweet and spoke comfortingly. She had seen Simran's chart and knew all the medical facts about her. She had her own examination to do. She asked Simran to open her



took three hours. You are in the

'Yes your parents have come

'It went off well. You have

'You are very thirsty! And your

Remember what I told you ves

terday evening. Just take deep

breaths through the tube. If you

Simran realised that beside

the throat tube she had so many

other things coming out of he

body. A bunch of wires attached to

round stickers on her chest were

to her neck through which IV

There was a thin cannula stucl

luid and blood was being slowly

nother hurdle had been crossed

Soon the throat tube was taker

out and replaced with a snug fit

ting oxygen mask. She wanted to

shoulder and said:

say so many things but her voice

'You will feel better in a few

She went on breathing deeply

she woke up she saw the hustle

and bustle of bed making and

tidying of the area. It was another

(Photos are for illustration purposes only)

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morning. A new life had begun.

being used to monitor her ECG.

do it well. I will be able to take the

ICU for the last two hours.

throat is dry and hurting.

throat tube out soon.

and seen you

new valve now.

mouth wide. The teeth were examined to see for any loose ones. She was also taught to do deep breathing. Dr. Nirmal explained that she would be giving a general anaesthesia so that Simran would sleep through the operation. She also explained that when Simran would wake up, she would feel very parched and would find a tube sticking out of her mouth. This tube would be connected to the wind pipe at one end and a ventilator at the other. She reassured Simran that, the tube would come out as soon as she is able to breathe well and all her vital parameters are normal. She was so reassuring that Simran did not

have any apprehension. Just Keep Breathing

Simran slept soundly that night as dribbled into her neck vein. she had been given a sleeping pill. A small cannula on her left She was kept nothing by mouth as wrist was connected to the bedside per the protocol. She was the first monitor. It was showing her blood patient. She said her goodbyes to pressure in a wave pattern. There were two big tubes draining from her parents early in the morning as she was wheeled into the the upper part of her tummy. The atre on the 7th floor. As the nurses were full of blood. She could fee switched trolleys, Dr. Nirmal the mild irritation of the urinary appeared next to Simran. She lovcatheter below. Something stuck ingly held Simran's hand as she in the nostril. Later, she was told was wheeled into the operating that it was a temperature probe Even with all these she was com room. Soft music was playing and Simran felt a small prick on her ortable. Her pain had been taken left forearm when a cannula was care of. She was able to breathe connected to an IV drip. After that easily and deeply. Her lips were it was oblivion. peing wiped with water soaked Simran! Simran! Wake Up! gauze piece. She was at peace

Open vour eves! It felt as if Dr. Nirmal was calling from far away. The sense of hearing awakens first after anaes-

was hoarse. The nurse tapped her She opened her eyes. They were sticky with the ointment that had been put when the surgery began. She wanted to ask for hours. Just do the deep breathing a wipe. The nurse at the bedside knew what she wanted. Her eveand was allowed to go back to lids were wiped with a moist tissue. Soon her vision cleared. sleep. Later, Sarabjeet and Neetu Simran realised she was not in came visiting. They looked the Operation room. She was on a strange in the gown, cap and proper bed in a brightly lit room. mask. She could see their happy There was a constant hum of voiceyes. They blessed her and went es speaking softly. The squeaks away. Although, there was no and beeps of many monitors sense of time in the brightly lit could be heard. ICU, Simran felt sleepy and when

She had many questions to ask but could not speak because of the tube stuck in her throat. She need not have asked the questions. Dr Nirmal was already answering

'Yes! Your operation is over. It





black holes.

N INTERNATIONAL team of researchers – including scientists from the Inter-University Centre for Astronomy and Astrophysics (IUCAA) in Pune – have found a radio jet from a supermassive black hole stirring the gas in what is called the 'Teacup galaxy'.

Fast jets of matter – moving close to the

speed of light – are launched by supermassive black holes. It has been predicted that such jets of matter can interact with the gas in galaxies. In their research, the team of scientists found that such a jet is strongly disturbing the gas in the galaxy. The international team studied the inter-

action of the radio jet with the cold gas around a massive quasar, named the Teacup galaxy. The Teacup is a radio-quiet quasar located 1.3 billion light years away.

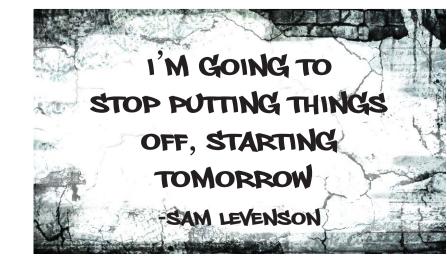
"The surprising thing observed was that the jet not only disturbs the gas along its path but also regions far away from it. This results from a bubble of hot gas, the jet creates, that is not easy to directly observe but expands in all directions, disturbing the gas everywhere, even those away from the observed jet," explains Professor Dipanjan Mukherjee, co-author of the study whose findings were published on Tuesday in the Journal Astronomy and Astrophysics

The study was led by Dr. Anelise Audibert and Dr. Cristina Ramos Almeida at the Instituto de Astrofísica de Canarias (IAC), Canary Islands, Spain, and the work involved co-authors. Professor Mukheriee from the IUCAA and Meenakshi, a PhD student. The team's findings were supported by the comparison with high-resolution hydrodynamic simulations performed by an international group of experts led by Professor Mukherjee. The IUCAA team used results from their hydrodynamical simulations and provided the theoretical interpretation of the astronomical observations that were carried out by the international collaboration using the Atacama Large millimetre/submillimetre Array (ALMA) telescope in Chile.

Using observations performed with the telescope in the Chilean desert, the ALMA. the work led by IAC researcher Anelise Audibert, was able to capture the emission from the dense and cold gas in the Teacup, traced by two carbon monoxide molecules Based on these observations, they found that the compact jet is clearly perturbing the gas distribution, clearing out the gas from the centre and pushing it away, despite it being a low-power jet.



THE WALL



BABY BLUES



By Rick Kirkman & Jerry Scott



ZITS







