

LUMIERE



SAINTGITS
LEARN.GROW.EXCEL

**DEPARTMENT OF CHEMICAL ENGINEERING
SAINTGITS COLLEGE OF ENGINEERING
(AUTONOMOUS)
KOTTAYAM**

OUR PATRON SAINT

“FUTURE BELONGS TO THOSE WHO BEAR THE TORCH OF WISDOM PASSED ON FROM GENERATION TO GENERATION WITH THE HANDS OF EDUCATION. EDUCATION IS THE ONLY POWERFUL INSTRUMENT TO FIGHT AGAINST SOCIAL EVILS. THE GLORY OF KNOWLEDGE CONSIST IN THE GLORY OF GOD.”



SAINT GREGORIOS OF PARUMALA

VISION & MISSION

Department Vision:

Emerge as a centre of excellence in Chemical Engineering education through high quality teaching learning process, research, and innovation in cutting edge technology.

Department Mission:

- Providing high-quality education that makes a strong foundation in theoretical and practical aspects of Chemical Engineering
- Cultivating the spirit of entrepreneurship, applied research and effective response to the needs of the industry
- Emphasizing the values of leadership, ethical approach, contribution to sustainable development and lifelong learning

Program Educational Objectives (PEOs)

Graduates from the Chemical Engineering program are expected to attain or achieve the following program educational objectives 3 to 5 years after graduation.

PEO1: Practice as successful professionals capable of facing challenges in the industry.

PEO2: Pursue advanced studies with strong foundation laid in the undergraduate education and excel as academicians and researchers.

PEO3: Exhibit communication skills ethical attitude, team work and leadership in their profession for the sustainable development of the society.

MESSAGE FROM HOD DESK



Dear Readers,

It is with great enthusiasm that I welcome you to this illuminating edition of "Lumière." The theme of light—encapsulated by the French term "lumière"—serves as a profound metaphor for the pursuit of knowledge and the clarity that drives our academic endeavors.

In this issue, we explore the transformative power of illumination within our department. Each article is a testament to the groundbreaking research, innovative teaching methodologies, and exceptional achievements of our faculty and students. Our aim is to showcase how light, both in its literal sense and as a symbol of enlightenment, plays a pivotal role in advancing our collective mission.

From in-depth interviews to detailed features on pioneering projects, this edition reflects the vibrant and dynamic spirit that characterizes our academic community. I trust that these narratives will not only inform but also inspire you, fostering a deeper appreciation for the ways in which our work lights the way for future advancements.

Thank you for your unwavering commitment to excellence and for contributing to the luminous path of knowledge that defines our department.

Sincerely,
Dr . Anshy Oonnittan
Head of Department

EDITORIAL MESSAGE

Dear Readers,

Welcome to the first edition of the *Lumière*! As we journey through the pages of this magazine, we invite you to explore the multifaceted nature of light—both in the literal sense and as a metaphor for creativity and inspiration.

Light has the remarkable ability to transform our perspectives, illuminate our paths, and inspire innovation. In this issue, we delve into how light influences art, technology, and our daily lives. From breathtaking photography that captures the essence of natural light to innovative solutions in sustainable lighting, our goal is to showcase the brilliance that surrounds us.

We believe that, just as light can brighten a room, ideas can illuminate our minds. Whether you're an artist, a thinker, or simply a curious soul, we hope this edition sparks your imagination and encourages you to shine your own light in the world.

Thank you for being part of the *Lumière* community. Together, let's continue to celebrate the beauty and inspiration that light brings to our lives.

With warmth and brilliance

The Editorial Team
Lumière

MESSAGE FROM STAFF EDITOR



Dear Readers,

Welcome to Lumière! As the Staff Editor, I'm excited to share with you our exploration of light in all its forms—both as a physical phenomenon and a source of inspiration.

Light has the power to shape our experiences, from the soft glow of dawn to the vibrant hues of a sunset. It influences art, ignites innovation, and connects us all. In this issue, we celebrate the myriad ways light enhances our lives, showcasing everything from stunning photography to cutting-edge technology in sustainable lighting.

Our contributors have poured their passion into articles that reflect the beauty, complexity, and transformative nature of light. We hope these stories inspire you to seek out and share your own moments of brilliance.

Thank you for being part of our journey. Together, let's continue to shine a light on creativity, curiosity, and connection.

**Warmly,
Vishnupriya PP
Staff Editor
Lumière**

MESSAGE FROM STUDENT EDITOR

Dear Readers,

Welcome to "Lumière," where we delve into the theme of illumination within our educational community. The word "lumière" translates to "light" in French, and in this issue, we strive to reflect the diverse ways in which light shines through our department's achievements and endeavors.

Our magazine showcases the brilliance of our students, the dedication of our faculty, and the groundbreaking projects that are shaping the future. We explore the radiant ideas emerging from research, the inspiring stories of personal growth, and the innovative teaching methods that push the boundaries of traditional education. Each article is crafted to highlight the light of knowledge and creativity that enriches our academic environment.

Through insightful interviews, detailed features, and captivating stories, we aim to celebrate and share the vibrant energy that defines our community. As you navigate these pages, may you find inspiration and motivation to pursue your own passions and illuminate your path.

Thank you for being a part of our journey. We hope this edition of "Lumière" sparks new ideas and encourages you to continue shining brightly in all your educational pursuits.

Warm regards,
Alan Kuriakose
Student Editor



MESSEGE FROM ASSOCIATE STUDENT EDITOR

Dear Readers,

Welcome to Lumière! As the magazine designer, I am thrilled to share the creative journey behind this issue, dedicated to the theme of light.

Designing Lumière is all about balancing aesthetics with storytelling. Each page has been thoughtfully crafted to reflect the beauty and diversity of light. From the choice of colors that evoke warmth and inspiration to the layout that guides your eye through our features, every detail is intended to enhance your reading experience.

I hope you enjoy the interplay of images and text, which aims to illuminate the stories within. My goal is to create a visual narrative that not only complements the written word but also sparks your imagination and invites you to see the world through a new lens.

Thank you for joining us on this enlightening journey. Let the light inspire you as much as it has inspired our work!

Warmly,
Harikrishna Harikumar
Magazine Designer
Lumière



MESSAGE FROM ASSOCIATE STUDENT EDITOR

Dear Readers,

As the Associate Student Editor of Lumière, I'm excited to share this special edition dedicated to the theme of light and its profound impact on our lives. In our fast-paced world, light serves as a reminder of clarity, inspiration, and possibility. This issue showcases a diverse array of voices, each exploring how light shapes our perspectives—whether through art, technology, or personal narratives. From stunning photography that captures the magic of natural light to thought-provoking articles on the science of illumination, we've curated content that encourages you to reflect on the role of light in your own life.

We are particularly proud of our student contributors, whose creativity and passion bring fresh insights and ideas to the forefront. It's a celebration of youthful expression and the unique ways we each interpret light and its significance.

Thank you for being part of the Lumière community. We hope you find inspiration within these pages and are encouraged to let your own light shine brightly!

Best wishes,

Adhil Jawad
Associate Student Editor
Lumière



MESSAGE FROM OPINION EDITOR

Dear Readers,

As the Associate Student Editor of *Lumière*, I am delighted to present this edition focused on the enchanting theme of light. Light not only illuminates our surroundings but also symbolizes hope, creativity, and the pursuit of knowledge.

In this issue, we explore the many facets of light—from its role in art and photography to its impact on our emotional and mental well-being. Our talented contributors have crafted pieces that inspire reflection and encourage us to appreciate the subtle brilliance in everyday life.

We invite you to dive into these stories and allow them to spark your own ideas. Whether it's through a beautifully captured image or a thought-provoking article, we hope you find moments that resonate with you and inspire your journey.

Thank you for joining us on this bright adventure. Together, let's continue to celebrate the power of light in all its forms!

Warm regards,

Salmanul Faris K K

Associate Student Editor

Lumière



Student Editorial Team



Alan Kuriakose
Editor



Harikrishna Harikumar
Associate Editor Design
and layout



Adhil Jawad
Associate Editor Content
Development



Salmanulfaris KK
Opinion Editor



Neethu EM
Art Director



Aimee Anna Preeth
Copy Editor

Supporting Team



Devika V R



Jeevan Paul

PLATONIC LOVE

THE TRANQUIL KIND OF LOVE WE BEAR;
AS THE BUSHY TREE FOR A MELANCHOLIC BIRD.
WHO CRIES OUT-
FROM THE HARSH RAYS OF SUN

THE AURORA OF THE LOVE WE HAVE;
WOULD EVEN BE MISTAKEN BY CUPID,
IT IS THE BEAUTY AND CALMNESS-
THAT WOULD BE UNDERSTOOD BY NONE.

THE MADNESS OF THE LOVE WE CARE;
IS AS THE DAFFODILS-
DANCING TOGETHER IN THE WIND,
STICKING ONTO EACH OTHER EVERY NOW AND THEN.

IT IS THE LIMERENCE OF THE LOVE WE SHARE;
WHICH ENVIES THE EYES OF THE ONE WHO SEES.
OH! LOVE IS NOT LOVE IF IT HAS AN END,
THIS WILL BE THE ONE WHICH NEVER HAS ONE.

THEE, MY PLATONIC LOVER;
I WILL BE THE SUN, TO THOU MOON.
TO GIVE THE LIGHT-
WHEN THEE ART FILLED WITH DARKNESS.

AKSHAYA BABU

CH 21-25

Lumiere 2023/01

The True Treasure: A Quest for Knowledge

In a small coastal town, a young treasure hunter named Eli dreamed of finding legendary riches. For years, he scoured the cliffs and caverns, convinced that gold and jewels were hidden beneath the waves. But after countless fruitless expeditions, Eli stumbled upon an old map tucked inside a weathered book in the local library.

The map didn't lead to chests of gold; instead, it pointed to a forgotten cave filled with ancient scrolls. Intrigued, Eli followed the directions, climbing through dense foliage until he reached the cave's entrance. Inside, the air was cool and musty, illuminated only by the faint glow of bioluminescent fungi.

As Eli ventured deeper, he discovered shelves lined with scrolls and tablets, each inscribed with knowledge about lost civilizations, forgotten sciences, and philosophies that shaped the world. Instead of the glittering treasures he had sought, he found wisdom and stories of human resilience, innovation, and the importance of preserving knowledge.

Eli spent weeks in the cave, absorbing everything he could. He realized that the true treasure was not material wealth but the understanding of the past and the insights it offered for the future. Armed with newfound wisdom, he returned to his town, eager to share what he had learned.

He started a community center where people could gather to explore history, science, and the arts. Eli's treasure transformed not just his life but the lives of everyone in the town, inspiring generations to seek knowledge instead of riches. In the end, Eli became known not as a treasure hunter, but as a guardian of wisdom, proving that the greatest treasures lie within the pages of history.

Name : *Aimee Anna Preeth*

Batch: CH 2I-25

Lumiere 2023/02

The Journey of a Chemical Engineering Student

Maria had always been captivated by the world of science. As a child, she conducted experiments in her kitchen, fascinated by the fizz of baking soda in vinegar. By the time she reached high school, her passion had solidified into a clear goal: she wanted to become a chemical engineer.

When she received her acceptance letter to a prestigious university, Maria was elated. However, the excitement soon morphed into anxiety as she faced the daunting reality of rigorous coursework. On her first day, the sprawling campus felt overwhelming. She walked into her introductory chemistry class, surrounded by students who seemed far more confident. The professor's rapid-fire explanation of chemical principles made her heart race.

As the weeks rolled on, the initial thrill of university life began to wane under the weight of intense studies. Thermodynamics, fluid mechanics, and materials science became her new reality. Late nights in the library became routine, filled with textbooks and caffeine. Group projects were particularly challenging; balancing different work ethics and personalities tested her patience. During one memorable project, a disagreement about design led to heated arguments. Frustrated, Maria stepped up as the mediator, reminding her team of their shared goal. This experience taught her the importance of collaboration and communication.

Midway through her second year, Maria landed a summer internship at a chemical manufacturing plant. Excited yet nervous, she quickly learned the complexities of real-world applications. Her supervisor assigned her to a team focused on optimizing a production process. The hands-on experience was eye-opening. Maria witnessed the importance of safety protocols and the intricacies of large-scale production. She felt her knowledge from the classroom come alive, and for the first time,

she understood the tangible impact of her studies. As her final year approached, Maria faced her most significant challenge: the capstone project. She and her team aimed to develop a biodegradable plastic alternative, addressing a pressing environmental concern. The project was daunting; it required extensive research, numerous trials, and countless failures. Frustration mounted as experiments didn't yield the desired results. However, Maria remained determined, leading her team through brainstorming sessions and late-night lab hours. When they finally achieved a breakthrough—a formulation that held promise—celebration erupted in the lab.

The day of the university conference arrived, and Maria felt a mix of excitement and anxiety as she prepared to present their findings. Standing in front of an audience filled with faculty and peers, she passionately articulated their project, highlighting its potential to reduce plastic waste. The applause that followed was more than just appreciation; it was validation of her hard work and dedication.

Graduation day was a whirlwind of emotions. As she donned her cap and gown, Maria reflected on her journey. The shy freshman who once doubted her abilities had transformed into a confident engineer ready to tackle the world's challenges. She accepted a job offer from a leading sustainability firm, eager to make a difference. In her new role, Maria applied her knowledge to developing innovative solutions for sustainable practices. Each project was a step towards her dream of creating a better future. She often found herself mentoring interns, sharing her experiences and encouraging them to embrace challenges. As she navigated her early career, Maria carried with her the lessons learned throughout her journey. She understood that every obstacle was an opportunity for growth. With a clear vision and unwavering determination, she was ready to make her mark in the field of chemical engineering, blending her passion for science with a commitment to sustainability. Her journey was just beginning, but the foundation she built during her years as a student would guide her toward a promising future.

SALMANUL FARIS KK

CH 21-25

Lumiere 2023/04

Whispers of the Deep

**Beneath the waves, in azure deep,
The ocean's secrets softly sleep.
Coral gardens, bright and fair,
Dance with currents, free of care.**

**Turtles drift on paths of blue,
While silver fish dart swiftly through.
Dolphins leap in joyful arcs,
Guided by the stars' faint sparks.**

**Whales call out, their songs are old,
Echoing tales of mysteries told.
The sea, a world so wild and grand,
Holds wonders we may never understand.**

**PRINCY PRASAD
CH 21-25**

Lumiere 2023/05



പച്ചമൺ ഗന്ധം കൊതിക്കുന്ന
കാറ്റിനും....

പീലിവിടർത്തി ആടാൻ
കൊതിക്കുന്ന
മയൂരത്തിനും....

കുളിരും, കുളിർമയും, നനവും
അറിയാൻ കാത്തുനിൽക്കുന്ന
മാനവനും,

കാടിനും, സർവ്വജീവജാലങ്ങൾക്കും
ഒരു സൗരഭമായി അണയൂ നീ
പ്രിയേ.....

Gayathri V
CH 21-25

AWAKENING THE SILENT STARS

IT IS AS IF THE ECHOES IN OUR
MINDS HAVE FALLEN ASLEEP.
WE MIGHT BE A SOLITARY STAR IN
THE VAST NIGHT SKY, BUT COULD
SHINE LIKE THE SUN IF ONLY REACH
FOR HIGH.

LIKE THE RIPPLES ON A STILL POND,
THEIR WORDS RESONATE IN THE
CORRIDORS OF MY INNER MIND-
'ONLY THE NAMES OF THOSE WHO
SPEAK WILL BE INSCRIBED ON THE
BLACKBOARD, WHOSE PRESENCE
LINGER LIKE WHISPERS IN THE
DARK.'

ITS NOT THAT WE ARE INCAPABLE,
BUT THAT WE ARE CLOAKED IN THE
SHROUD OF INDOLENCE.
RISE LIKE A PHOENIX FROM THE
ASHES AND LET YOUR NAME
ENGRAVE ITSELF UPON THE
BLACKBOARD OF DESTINY.

AHANA BABU
CH 21-25


Lumiere 2023/07

The Allure of Constellations: Exploring the Cosmos and Our Connection to the Stars

The allure of constellations captivates our imagination as we gaze up at the night sky, where shimmering dots of light form recognizable patterns. These celestial arrangements are not merely random; they are stories written in the stars, connecting humanity to a rich tapestry of history, mythology, and science. The concept of constellations dates back to ancient civilizations, with the Babylonians among the first to create star maps around 2000 BCE. They identified groups of stars and associated them with gods and mythical figures, laying the groundwork for our understanding of the night sky. The Greeks later expanded this knowledge, with astronomers like Ptolemy cataloging 48 constellations in his influential work, *Almagest*. Many of these constellations, such as Orion and Ursa Major, continue to be recognized today, illustrating the enduring legacy of these early astronomers.

Each constellation is steeped in mythological significance, enriching our understanding of the night sky. For instance, Orion, known as the Hunter, is often depicted with a belt of three stars that symbolize his prowess and adventures in Greek mythology. These stories not only provide insight into the cultures that named them but also highlight humanity's intrinsic need to find meaning in the cosmos. By weaving together narratives of gods, heroes, and creatures, constellations offer a glimpse into the beliefs and values of ancient societies, demonstrating how our ancestors sought to explain the world around them.

Beyond their mythological allure, constellations play a crucial role in astronomy. They serve as reference points that help astronomers locate and identify celestial objects, providing a framework for understanding the universe. The stars within a constellation may not be physically related; rather, they are simply aligned along our line of sight. This distinction emphasizes the difference between a constellation and an asterism, the latter being a recognizable pattern that may belong to one or multiple constellations. Moreover, constellations facilitate the understanding of celestial navigation. Historically, sailors and explorers relied on familiar star patterns to guide their journeys across oceans. Though modern navigation has evolved, the principles rooted in the stars remain relevant today.



For college students, engaging with constellations offers a unique blend of relaxation and inspiration amid the pressures of academic life. Stargazing can be a meditative experience, allowing individuals to disconnect from screens and immerse themselves in the natural world. Whether lying on a blanket in a campus park or attending an astronomy club event, identifying constellations fosters a sense of wonder and curiosity. The experience of looking up at the night sky invites us to contemplate our place in the universe and encourages a deeper connection with the world around us.

In an age dominated by technology and constant connectivity, the beauty of constellations serves as a reminder of our connection to the cosmos. They are not just patterns of stars; they encapsulate the stories of our past, the tools of navigation, and a source of inspiration for generations to come. So, the next time you find yourself beneath a clear night sky, take a moment to look up. Each constellation holds a piece of the universe's vast tapestry, waiting to be discovered and appreciated. Embracing this cosmic heritage can reignite our sense of wonder and encourage us to explore the mysteries that lie beyond our earthly concerns.

GRAHAM BIJI ANTONY

CH 21-25



Lumiere 2023/09

Wandering Alone



She roams where wildflowers freely bloom,
In meadows vast, beneath the sun's soft loom,
With each step, her spirit soars and sings,
A solo wanderer, on wide-open wings.

The road unwinds beneath her fearless feet,
Through whispering woods and rivers' gentle beat,
She chases dreams that dance in twilight's hue,
Embracing freedom, with skies of endless blue.

No maps or guides can cage her heart's delight,
She charts her course by starlight in the night,
In solitude, she finds her own true grace,
A solo explorer in a boundless space.

Her freedom is a melody so sweet,
With every step, her soul's rhythm beats,
She writes her story on the winds of time,
A girl unbound, with freedom as her rhyme.

DEVIKA VR

CH 21-25

Lumiere 2023/10



FACTS ABOUT DEADLY ELEMENTS

- Polonium (Po): Polonium is so radioactive that a tiny amount can be fatal if ingested or inhaled.
- Radon (Rn): Radon is a silent killer—it's a colorless, odorless gas that can lead to lung cancer.
- Thallium (Tl): Thallium is so toxic that it was used historically as a poison, causing severe health issues.
- Arsenic (As): Arsenic was once a popular poison due to its tastelessness and lethality
- Fluorine (F): Fluorine is the most reactive element and can even react with glass and steel

AMAL BINU
CH 21-25



Sunflower Radiance: The Light That Touches the Soul

In a quaint village nestled between rolling hills and lush forests, there was a small, unassuming cottage with a unique feature: a single, ornate window that looked out onto a serene garden. This window, framed in delicate ivy and polished wood, was famous among the villagers for its captivating play of light.

The cottage belonged to an elderly artist named Nandana, who had lived there for as long as anyone could remember. Her paintings, displayed in the local gallery, were renowned for their breathtaking beauty and intricate detail. Yet, despite her acclaim, Nandana remained a humble figure, often seen wandering the village with her sketchpad and a thoughtful expression.

Nandana's work was inspired by the light that streamed through her window. It was not just the morning sun or the afternoon rays she found captivating, but the interplay of light and shadow that transformed her garden into a canvas of ever-changing hues. Each day brought a new palette, a new story painted in the shifting colors of dawn and dusk.

One autumn morning, as the first light of day filtered through the window, Nandana noticed a young girl sitting in her garden. The girl, with hair the color of autumn leaves and eyes full of wonder, was sketching intently. Curious, Nandana approached her.

"Good morning," Nandana said, her voice gentle but filled with a genuine interest. "What brings you to my garden?"

The girl looked up, her cheeks flushing with surprise. "I'm Nisha," she said shyly. "I've always loved watching the light in this garden. It's magical, isn't it?"

Nandana smiled warmly. "Indeed, it is. I've spent many years trying to capture that magic in my paintings. But tell me, what draws you to it?"

Nisha's eyes sparkled as she spoke. "I find that light changes everything. It makes ordinary things look extraordinary, and it can transform how you feel about the world."

Nandana nodded thoughtfully. "Yes, light has a way of revealing beauty in the most unexpected places."

Over the following weeks, Nisha became a regular visitor to the garden. She brought her sketchpad and spent hours observing the changing light, her drawings reflecting the subtle transformations of the seasons. Nandana watched Nisha with a sense of quiet admiration, recognizing a kindred spirit in the young girl.

One evening, as the sun set in a blaze of orange and pink, Nandana invited Nisha inside her cottage. The walls were adorned with Nandana's paintings, each capturing the essence of the light that danced through her window.

"This is incredible," Nisha said, her eyes wide with awe. "How do you capture all of this?"

Nandana smiled and gestured to her latest work, a vibrant painting of the garden bathed in the golden glow of twilight. "It's not just about seeing the light; it's about feeling it. When you immerse yourself in the moment, the light reveals its secrets to you."

Nisha's gaze lingered on the painting, and she saw not just colors, but emotions and stories. "I've always loved drawing, but I've never thought about how light can tell a story." Nandana's eyes twinkled with understanding. "Light is a storyteller. It narrates the passage of time, the shifts in emotion, and the changes in perspective. It has the power to inspire and transform."

"As winter approached, the garden transformed under a blanket of snow, and the light took on a different quality—crisp, clear, and reflective. Nisha continued to visit, her sketches evolving to capture the serene beauty of the winter landscape. Nandana's paintings also adapted to the new season, their warm hues contrasting with the cold, radiant light.

One particularly cold morning, Nandana found Nisha shivering in the garden, her hands frozen but her spirit undaunted. Concerned, Nandana invited her inside for tea. As they sat by the fireplace, Nisha shared her recent sketches and paintings, now deeply influenced by Nandana's teachings about light.

"I've learned so much from you," Nisha said, her voice filled with gratitude. "You've shown me how light can be a source of endless inspiration, and how it can change our perception of the world."

Nandana's heart warmed at Nisha's words. "And you've reminded me of the joy of discovering new perspectives. Your passion and curiosity have rekindled my own inspiration." As the years went by, Nandana and Nisha's bond grew stronger. Nandana continued to paint, her work evolving with each passing season. Nisha, now a young artist in her own right, used the lessons she had learned from Nandana to create her own masterpieces.

One spring day, as Nandana and Nisha walked through the garden, now alive with the vibrant colors of blooming flowers, Nandana felt a deep sense of fulfillment. She realized that the true magic of the light was not just in the art it inspired but in the connections it forged.

"The light in this garden has given us so much," Nandana said, her voice tinged with emotion. "It has taught us to see the world with new eyes and to find beauty in every moment."

Nisha looked at her mentor with admiration. "And it has given us a friendship that is as enduring as the light itself."

As the sun dipped below the horizon, casting a warm, golden glow over the garden, Nandana and Nisha stood together, basking in the light that had brought them together and inspired their art. The light, ever-changing and ever-present, continued to weave its magic, illuminating their lives and their creations.

In the quiet embrace of the evening, they knew that inspiration was not just a fleeting spark but a constant, guiding light—a beacon that illuminated their paths and their hearts. And in that radiant glow, they found a shared purpose and a timeless beauty that would forever enrich their lives.

ALAN KURIAKOSE

CH 21-25

Lumiere 2023/13

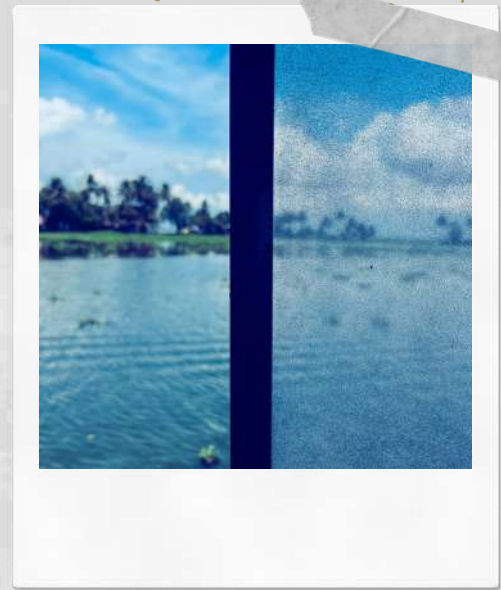
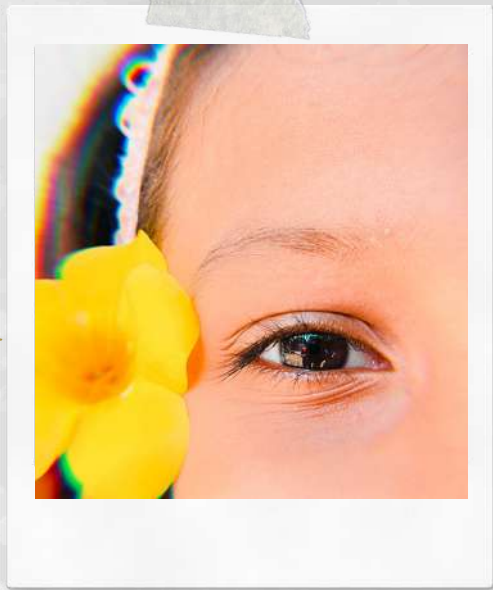
ECHØES ØF THE PAST

In dawn's soft light, a father's
hand,
Guides his son across the land,
With wisdom deep and love so
true,
Each lesson shared, a guiding
view.
Through laughter's joy and
trials met,
Their bond is formed, a lifetime
set,
The son grows tall, the father
near,
In every step, his love sincere.
As years unfold and paths
diverge,
The father's spirit will emerge,
A timeless bond that's deeply
sown,
In the son's heart, forever
known.

HARIKRISHNA HARIKUMAR
CH 21-25



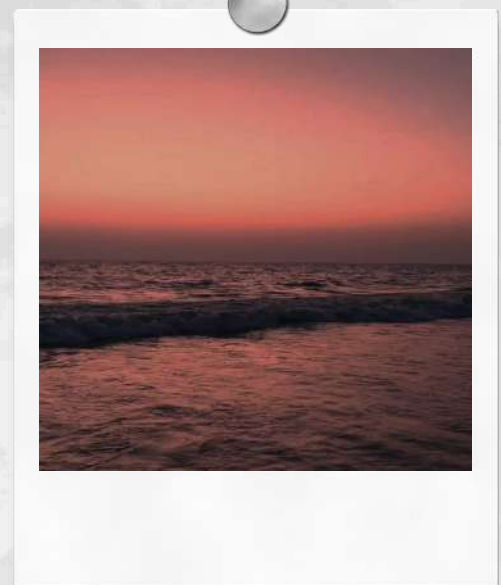
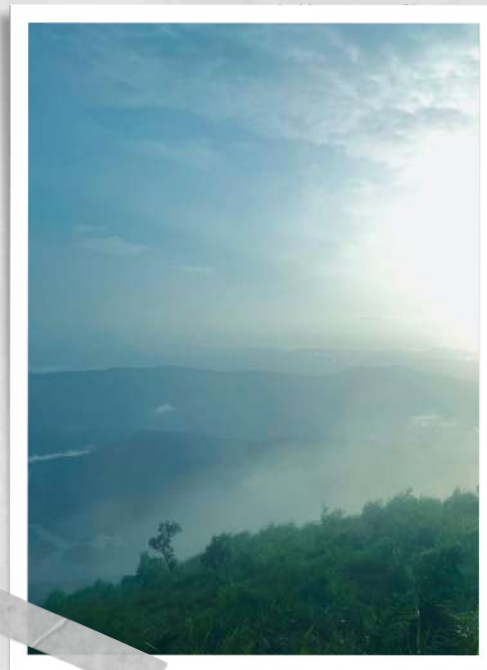
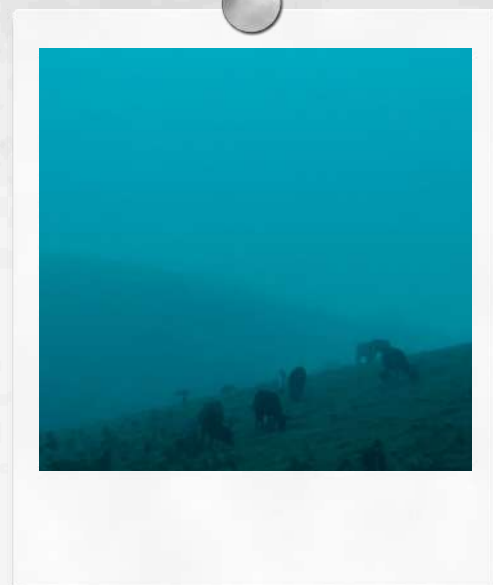
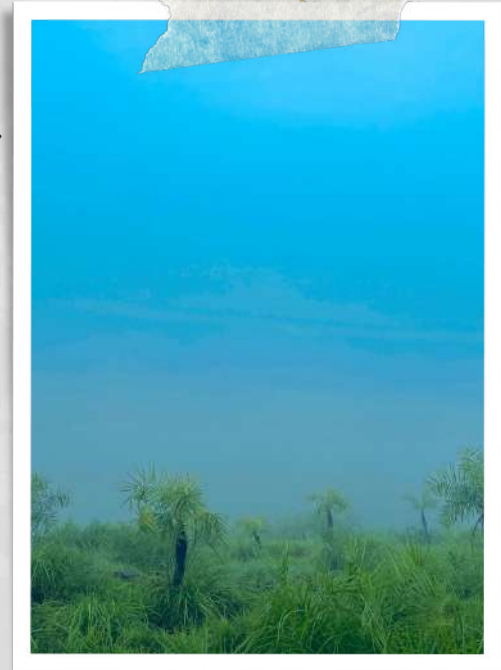
Lumiere 2023/14



Photographs

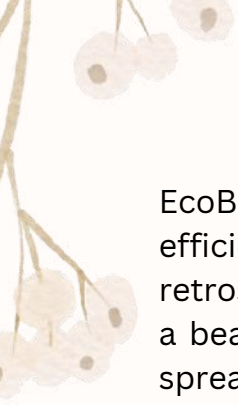
Alan Kuriakose

CH 21-25



A RAY OF LIGHT IN THE STORM: THE JOURNEY OF LENA RAMIREZ

The late-night hum of the Fairview University Library was punctuated by the soft clacking of keyboards and the occasional shuffle of pages. Lena Ramirez sat by herself at a corner table, her stack of textbooks splayed out around her as if in defense. Her eyes were heavy while tracing complex diagrams and dense text. The ticking of the clock on the wall was relentless, a constant reminder of the pressures set upon her. Lena was a senior majoring in Environmental Science, which she had grown dearly to love. But with the building of her passion for the subject came increased stress. Her family had managed to dive into financial troubles, and Lena herself needed to take on several jobs to help them out. Sometimes, it felt like her responsibilities were dragging her down; now, her academic dreams were hanging in the balance. One evening, when Lena wished to take a short breather from everything that bothered her, she discovered in the auditorium one lecture in progress. It was by Dr. Emma Collins, an expert in sustainable innovations. Lena joined, despite her fatigue, thinking maybe this might be some solace or distraction. Dr. Collins's lecture was engrossing. She spoke about solutions to environmental problems with contagious zeal and of changes that could be made. A fire was lit inside Lena. It was the first time in weeks she felt a glimmer of hope. After the lecture, Lena approached Dr. Collins, her heart loudly beating in her chest. She told her story, her difficulties, and her love for environmental science. Dr. Collins listened and, from what Lena said, was struck by the determination. There and then, she promised a slot to Lena on her research team. This was a lifeline for Lena, a getting-away-from-it-all opportunity to come back to things she loved. The research position was equally challenging but enormously refreshing. Lena poured herself into the projects-working on the latest innovations in renewable energy. Every small success brought hope back and relieved her from her personal problems. The lab became a place of refuge where Lena's thoughts would shift from struggles to aspirations. With the newly found sense of direction, Lena channeled these experiences into the formation of a new venture. She envisioned a startup which could integrate her knowledge of environmental issues with practical ways of solving day-to-day problems. Convinced by Dr. Collins and having secured a small grant from the university competition, Lena embarked on "EcoBridge," a firm providing underserved communities with access to affordable, eco-friendly products. It didn't take long for the startup to gather momentum.



EcoBridge offered everything from biodegradable cleaning supplies to energy-efficient gadgets that found favor across the board with a wide customer base. In retrospect, Lena's venture proved more than a financial success; it was to become a beacon of hope for others facing similar adversities. News of Lena's successes spread across campus, serving as an inspiration to other students and a hot topic during workshops on perseverance. Lena also began mentoring students, telling them of her story of struggle and urging them to search out their own sources of hope.

It soon outgrew its initial scope, as Lena started to organize workshops and outreach programs on sustainable living practices in the local communities. This was indeed a community-driven startup, taking hope and practical solutions beyond the university campus. From the abyss of despair to the pinnacle of entrepreneurial success, Lena's case epitomized the virtue of hope. It was a reminder that even in the most grotesque instances, it is hope that sees one through the storm and sets one up on their journey of fulfilling their dream. Lena Ramirez's life would continue to shine bright for all individuals as a demonstration that struggles experienced in life, with persistence and hope, can be converted into a wellspring for inspiration and change.

JYOTHIKA PA
CH 21-25

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- Gayathri V
CH 21-25

SUSTAINABLE LIGHTING SOLUTION

Sustainable lighting solutions play a crucial role in reducing energy consumption, minimizing environmental impact, and promoting a greener future. In this article, we will explore various innovative approaches and technologies that are revolutionizing the way we illuminate our spaces while prioritizing sustainability.

One of the key sustainable lighting solutions gaining popularity is LED (Light Emitting Diode) technology. LEDs are highly energy-efficient, consuming up to 80% less energy than traditional incandescent bulbs and lasting significantly longer. This longevity not only reduces the frequency of bulb replacements but also decreases the amount of waste generated. Additionally, LEDs are available in a wide range of colors and can be dimmed easily, providing flexibility in lighting design while conserving energy.

Another sustainable lighting trend is the integration of smart lighting systems. These systems utilize sensors, timers, and automation to adjust lighting levels based on occupancy, natural light availability, and time of day. By optimizing light output according to actual needs, smart lighting reduces unnecessary energy usage and enhances user comfort. Moreover, these systems can be remotely controlled and monitored, allowing for real-time adjustments and energy management.

Daylight harvesting is a sustainable lighting strategy that leverages natural light to illuminate indoor spaces. By strategically positioning windows, skylights, and light shelves, daylight harvesting maximizes the use of natural light, reducing the reliance on artificial lighting during daylight hours. This approach not only saves energy but also enhances the visual comfort and well-being of occupants by connecting them to the natural rhythms of the day.

Furthermore, the concept of circadian lighting is gaining traction in sustainable design. Circadian lighting mimics the color temperature and intensity of natural light throughout the day, supporting the body's natural circadian rhythm and promoting better sleep patterns and overall health. By aligning artificial lighting with our biological clock, circadian lighting systems contribute to human-centric lighting designs that prioritize well-being and productivity.

In conclusion, sustainable lighting solutions are at the forefront of creating environmentally conscious and energy-efficient illuminated spaces. From LED technology and smart lighting systems to daylight harvesting and circadian lighting, the evolution of sustainable lighting is transforming the way we illuminate our world. By embracing these innovative approaches and technologies, we can illuminate our spaces responsibly, reduce our carbon footprint, and pave the way for a brighter and more sustainable future.

Nimisha Anil

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INDUSTRIAL VISIT



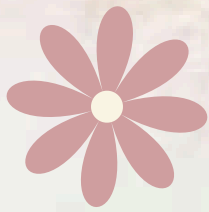


Memories





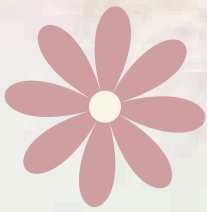
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Lumiere 2023/22



Group Photo



Editorial Team

As we wrap up this edition, we want to extend our heartfelt gratitude to our readers for joining us on this journey. Each page reflects our commitment to sharing stories that inspire, inform, and ignite curiosity. We believe in the power of words to connect us, and we hope that you found joy and inspiration within these pages.

We encourage you to continue exploring the themes we've presented, whether it's through your own adventures or the stories you share with others. Your feedback and engagement mean the world to us, and we look forward to hearing your thoughts.

Stay curious, keep dreaming, and embrace the beauty around you. Until next time!

Warm regards,
The Editorial Team



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