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The Editorial Board

-Beckoning Creati'wit'y



presents

TIRESIA

Colours of Malaviya

'Success is nothing more than a few simple disciplines, practiced everyday.'

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Tete-a-Tete

with

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Message from The Editorial Board

“Your success and happiness lies in you. Resolve to keep happy, and your joy and you shall form an invincible host against difficulties.”

Last year was an amazing ride that had its ups and downs and now with the inception of another year upon us, it's time to embrace the post-Christmas blues and get inspired about our future, vision and our goals. With land engulfed in the reign of winter, let us salute the new semester.

After ARUNODAY and SPELLCZAR, the rejuvenated Malaviyans are all groomed up to solemnize the REPUBLIC DAY and prove their mettle in sports and nearing events with a replenished vigour.

The harbinger of MMMUT, **The Editorial Board** brings forth this issue of **Tiresia** and wishes everyone a good luck for the successful culmination of this propitious semester.

FROM VICE CHANCELLOR'S DESK

Greetings and best wishes for year 2016!

I am happy to know that the Literary Sub Council of Council of Student Activities of University has been quite regular in releasing the University's newsletter titled **Tiresia** in the academic session 2015-16 and is now ready with the first issue in new year 2016.

You are aware that the University has completed two years of its meaningful existence since December 1, 2013 and now running into its third year. During this period, lot of sincere efforts have been made for bringing the paradigm shift in the teaching-learning model in the University along with systemic changes so as to meet the present day challenges of the higher technical education. All efforts made for improvement in the quality of education in the University need the participation of all stakeholders within its premises so that the exterior world could perceive the qualitative improvement in the technical education of this University. Students being one of the most important stakeholders in the system, need to be further geared up for coming forward to improve the quality of teaching-learning processes through their active participation in classroom and laboratory and also provide their valuable feedback for continuous correction in the system.

Further, I am happy to share that the University has envisaged Green Campus – Clean Campus Mission 2016 in this year. Through this newsletter, I call upon the whole University community to be a part of this mission and contribute in creating this campus as Green and Clean and feel glorified for saving the planet Earth and ensuring sustainable development of human civilization.

I take this opportunity to extend my best wishes for happy and prosperous year ahead to readers of **Tiresia** and congratulate the members of **The Editorial Board** for the first edition in new year 2016. Looking forward for cooperation and support of all in building of Madan Mohan Malaviya University of Technology as one of the prime destinations for good quality higher technical education.

Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning.

- Albert Einstein

Jai Hind.

Prof. Onkar Singh

FROM CHIEF EDITOR'S PEN

I feel extremely delighted to share with the readers, the release of the fourth issue of the monthly newsletter, **Tiresia**, in January 2016, at our University portal in the shade of a young, experienced, dynamic, visionary and scholarly Vice Chancellor Prof. Onkar Singh. **Tiresia**, the monthly newsletter of the University, unlike playing the role of a sheer spectator and reporter, speaks the language of the University, connecting the stake holders, communicating with them and inviting them to be an inseparable part of the University. It tries to establish a close bond between the old scholars and the new learners by offering them to share their experiences, provide their invaluable suggestions and extend their support in making and escalating the University to an echelon where from, perforce, each and every one reflects and gravitates the world to its reputation.

*The only person you should try to be better than , is the
person you were yesterday.*

Dr. Arjun Dubey

Tête-à-Tête

With

Himanshu Mishra



Mr. Himanshu Mishra, an eminent personality, is an alumnus of Madan Mohan Malaviya University of Technology. He is a pass out of 2002 batch and has pursued B.E. in Mechanical Engineering. He is presently working as Manager - Strategy and Regulatory at Meenakshi Energy Private Limited. The Editorial Board had the privilege to interview him. Here is an excerpt from what he had to say.

Q1: Sir, please describe your life post Malaviya.

My life post Malaviya was a perilous journey, basically from 2002 to 2007. I did not get placed. Then after, I went to New Delhi for further preparations and managed to qualify written examination of 16 PSUs. I was on the verge of depression. It was then when my batch mates forced me to go for MBA. I pursued my MBA from UPES in the session 2005-07. I then worked on my soft skills. I then switched to 3 to 4 companies and finally settled at Meenakshi Energy Private Limited.

Q2: How would you describe your college life?

Talking about my college life, I would say my college life was full of fun. I was an active participant in most of the college events. I actively participated in many co-curricular activities including sports like football, hockey etc. I was the secretary of Academy of Literary Activities (ALA). We started the MOCK CAT test series in the college. I had a lot of friends and we enjoyed our stay at Malaviya to the fullest.

Q3: What is your success secret?

I believed in myself and never gave up. I kept working hard. For whatever I am and whatever I will be, I owe a lot to my parents, elder brother, teachers and all those who tried to motivate me. I was very sincere towards my studies. I just concentrated on my academics in college which had paid later on.

Q4: What are your views on the current state of the Malaviyan Alumni Association?

I think Alumni Association is doing a great job in bringing new and old students together. I am a lifetime member of the NCR Alumni Association. It also gives our families an opportunity to know each other and feel as a part of the college (now university). Every student, after completing the course, should remain connected to his or her alma mater and Alumni Association provides a good platform for it.

Q5: What change do you want to see in the University?

The University needs to change in terms of thinking. People need to become broad minded. Have your views but respect others'. Besides infrastructure, the University should progress in other aspects too. The University should provide more opportunities for honing entrepreneurship skills of the students.

Q6: What message would you like to convey to the budding engineers of the Malaviya?

Develop yourself and be different. Reflect yourself as an intellectual capital. So, I would like to tell all the young minds to stay focused on their objectives and goals. Remember one thing friends, never run away from the challenges put in front of you.

Campus Buzz



- **Second University Foundation Day** was celebrated on December 1, 2015 and December 2, 2015.
- National level workshop on **Emerging Trends in Smart Grid and Renewable Energy System** sponsored by **TEQIP-II**, was held on December 8, 2015 and December 9, 2015 by Department of Electrical Engineering.
- Short term course on **Mathematical Methods in Science and Technology** was successfully organized by the Department of Applied Sciences.
- **Soft Pro** and **Idea Cellular Private Limited** visited the University for campus recruitment last month.
- A **TEQIP- II** sponsored seminar on **Design and Simulation of Microwave Components** was organized by Department of Electronics and Communication Engineering on December 19, 2015 and December 20, 2015.
- **The Editorial Board** conducted a Debate Competition on the occasion of **Good Governance Day** on December 25, 2015.
- **SpellCzar** was conducted on January 3, 2016 which witnessed tremendous participation.



TECHinSIGHTS



Here is the set of questions for this month's competition.
Mail the answers at literaryedb@mmmut.ac.in

COMPUTER SCIENCE AND ENGINEERING

What will be the output of the following code?

```
#define square(x) x*x
main()
{
int i;
i= 64/square(4);
printf("%d" ,i); }
```

MECHANICAL ENGINEERING

A cylinder contains 5 cubic metre of an ideal gas at a pressure of 1 bar. This gas is compressed in a reversible isothermal process till its pressure increases to 5 bar. What is the work in kJ required for this process ?

CIVIL ENGINEERING

X-component of velocity in a 2-D incompressible flow is given by $u = y^2 + 4xy$. If Y-component of velocity 'v' equals zero at $y = 0$, what is the expression for 'v' ?

ELECTRICAL ENGINEERING

What is the fundamental frequency in rad/s for a periodic signal $v(t) = 30 \sin 100t + 10 \cos 300t + 6 \sin (500t + \pi / 4)$?

ELECTRONICS AND COMMUNICATION ENGINEERING

In a semiconductor material, the hole concentration is found to be $2 \times 2.5 \times 10^{15} \text{ cm}^{-3}$. If mobility of carriers is $0.13 \text{ m}^2/\text{v-s}$, then find the current density if electric field intensity is 3.62×10^{-19} .

WINNERS OF LAST EDITION :

COMPUTER SCIENCE AND ENGINEERING

Gaurav Singh, CSE 2nd year

MECHANICAL ENGINEERING

Devendra Singh, ME final year

ELECTRICAL ENGINEERING

Devesh Kumar Chaturvedi, EE 1st year

CIVIL ENGINEERING

Devesh Kumar Chaturvedi, EE 1st year

ELECTRONICS AND COMMUNICATION ENGINEERING

No satisfactory answers.

Gene Gems: Ultra-personalized jewellery encapsulates your DNA

Diamonds may be forever, but what's more unique and rare than even the most precious stones on Earth? The code of life, said Swiss chemist **Robert Grass**, the mastermind behind **Identity Inside**, a project that aims to create ultra-personalized jewellery embedded with a loved one's DNA.

The Inspiration behind the custom-made baubles came from Grass's professional work to develop technology to stabilize and store DNA. "We started playing around with the idea of what we could do with this technology," he said in his interview with *Live Science*. "Our DNA is what makes us unique, and with jewellery, it's something that you want to be unique and special."

So how does it work? First, the purchaser needs to collect saliva samples (with a cotton swab on the inside of his or her cheek). This is then sent to Grass' lab in Switzerland, where the sample is processed and DNA is extracted and purified. The scientists add chemicals to the liquid solution containing the DNA to promote the growth of glass that "fossilizes" and encapsulates the DNA at room temperature. "The result is powdered glass containing tiny strands of DNA", Grass said. Once they have this substance, the scientists then drill a small hole on the inside of a piece of jewellery (a ring, for instance), fill it with the powder and seal the



opening with a flawless, 0.02 carat diamond.

**STUDENT
MEMBERS**

FINAL YEAR

Adarsh Chaudhary
Aishwarya Chauhan
Asmita Pal
Divi Khare
Mudit Saxena
Pragya Pandey
Rajesh Kumar Ojha
Ritika Gera
Saurabh Dubey
Shweta Srivastava
Sonali Mishra
Vijaya Laxmi Acharya
Vishal Sharma

“The process leaves the DNA unharmed”, Grass said, which means the samples can be recovered at any time for future use or analysis. The researchers also collected data on decay and found that, under simulated storage conditions, the encapsulated DNA would decay to half its concentration over a course of 1000 years.

Identity Inside is offering to preserve DNA within sterling silver rings, Swiss made watches and Rose gold pendants, and the project is seeking funding through KICKSTARTER. The campaign has currently raised more than \$9,000, but Grass said he hopes to reach the project’s goal of almost \$20,000 by December 20.

For Grass, **Identity Inside** represents a new way to share something intimate and personal, which is something he said he struggled with when looking for a gift for his wife after they got married and after the birth of their child. “I was looking for something special, something more than just a tiny stone,” he said. “With Identity Inside, I want to give the owner a feeling of uniqueness.”

STUDENT MEMBERS

THIRD YEAR

Abhishek Singh
Abhishek Yadav
Ankita Jaiswal
Antra Saxena
Deeksha Sharma
Dhawal N. Asthana
Lisha
Perna Arya
Ravikant
Ritvik Verma
Shubham Chand
Siddharth Sagar
Srijan
Vishal Tiwari

UNIVERSITY FOUNDATION DAY CELEBRATION

On the propitious occasion of the second University day, the entire campus was embellished with colourful flowers. The lavishly decorated stage was scintillating even in the bright day space light, so much that it will be seen as a paragon of beauty for years to come. The University and its students were all geared up to welcome the Chief Minister of Uttar Pradesh. Celebrations for the **Second Foundation Day** of Madan Mohan Malaviya University of Technology was marked by the visit of **Shri Akhilesh Yadav**, who was also the Chief Guest for the event. He was accompanied with Er.



Suresh Kumar, Shri Mata Prasad Pandey and Shri Fareed Mehfooz Kidwai.

The function began with the Vice Chancellor, Professor Onkar Singh's annual report. In his report, he came up with the past changes in the infrastructure of the University and also his future plans for its further development.

The next speaker was Er. Suresh Kumar. He has various accolades to his name. His speech galvanised the young minds of the University. In his address, he talked about diverse things such as his days at Malaviya, his work experience with the former president late Dr. A.P.J. Abdul Kalam, his recent projects at Leh and how to increase one's brand value as an engineer. Being an aeronautical engineer, he suggested the opening of an Aeronautical Engineering programme in the University. There were also speeches by Shri Mata Prasad Pandey, speaker of the Legislative Assembly, Uttar Pradesh and Shri Fareed Mehfooz Kidwai, Minister of Technical Education (Independent charge), which was followed by the Chief Minister's address. It was the centre of attraction of the event. Thousands of students, delegates from various reputed institutions and media persons had gathered to witness his address.

STUDENT MEMBERS

SECOND YEAR

Abhijeet Singh
Abhilasha Gupta
Divyany Pandey
Harsh V. Tripathi
Hemant Kumar Singh
Himani Raj
Ishita Shahi
Rajan Kumar Soni
Rajat Srivastava
Shivangi Srivastava
Shrishti Verma
Shwetank Srivastava
Srijan Singh

He mentioned his achievements as the Chief Minister of the state and his contribution towards the development of Gorakhpur city and our University specifically. He inaugurated seventeen new projects for the University. The Chief Minister also awarded the toppers for the under graduate and post graduate programs of the year 2014 with gold medals and various memorial scholarships. Lastly, he gave his word to bolster the University in his best possible incumbency. To its aid, he declared the passing of funds for solar roof top panel, cycle friendly campus and a gym to enhance the sports facilities in the University.

