

MELAKA  
INTERNATIONAL  
INTELLECTUAL EXPOSITION

# MIIEX'24

12 JUNE '24

Dewan Taming Sari,  
Universiti Teknologi MARA Caw. Melaka,  
Kampus Alor Gajah, Melaka

*"Empowerment of Special  
Needs through Invention  
& Innovation"*

**EXTENDED  
ABSTRACT**

# MiiEX'2024

**MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024**

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND  
INNOVATION”**

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UiTM Cawangan Melaka

KM26 Jalan Lendu,

78000 Alor Gajah

Melaka Bandaraya Bersejarah

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# MiiEX'2024

**MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024**

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND  
INNOVATION”**

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## **FOREWORD BY THE RECTOR OF UiTM CAWANGAN MELAKA**



**Professor Ts. Dr. Mohd Rasdi bin Zaidi**

**Rector, Universiti Teknologi MARA (UiTM)**

**Cawangan Melaka**

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Umami Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

## **FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)**



**Associate Professor. Dr. Nur Hayati binti Abd Rahman**

**Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka**

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you



## **FOREWORD BY THE PROJECT DIRECTOR**



**Dr Zulkefli bin Muhamad Hanapiyah**

**Senior Lecturer**

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

**FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY,  
INNOVATION AND DIGITAL COMMUNICATIONS**



**YB Datuk Fairul Nizam bin Roslan**

**Melaka State Exco of Science, Technology, Innovation and Digital Communications**

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honor for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

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This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

## MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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	RIDZUAN ADLI BIN AZIDIN
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	PN AFZAN NOR BINTI TALIB
	PN NUR HIDAYAH ZAINI
	CIK FARIHA AIZA BINTI RAMLY
	PN NURUL AIN BINTI MUSTAKIM
	PN NOORZALYLA MOKHTAR
	PN ZATUL HIMMAH BINTI ABDUL KARIM
	CIK MUNA KAMEELAH BINTI SAUID
	PN NOR MASLIA RASLI SAMUDIN
	PN NURHAFIZAH MOHD ZOLKAPLI
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	SITI NURSYAHIRA ZAINUDIN
	BUSHRA ABDUL HALIM
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	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN



## **ABOUT MIIEX'24**

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

## **OBJECTIVES**

1. Encourage and instil passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

## **THEME**

**'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'**

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<b>SALACHOLESTA (OBAT HERBAL KOLESTROL DARI KULIT SALAK) SEBAGAI UPAYA MENINGKATKAN KESEHATAN DAN PEREKONOMIAN DI KOTA PADANGSIDIMPUAN</b>	<b>1429</b>

## **Makeup Brush Dryer**

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### **ABSTRACT**

Makeup application is a daily ritual for many individuals, but the cleaning and drying of makeup brushes often prove to be time-consuming tasks. In response to this challenge, ChicGlow introduced the Makeup Brush Dryer, an innovative solution designed to revolutionize the drying process for makeup brushes. This device utilizes advanced technology to rapidly remove moisture from brushes within minutes, ensuring they are ready for immediate use. By harnessing gentle airflow and precise temperature control, the Makeup Brush Dryer preserves the quality and shape of brushes, unlike traditional methods that may lead to damage or deformation. With its user-friendly design and compact size, our device is suitable for both personal and professional use, catering to the diverse needs of makeup enthusiasts and industry professionals. Furthermore, the Makeup Brush Dryer aligns with environmentally conscious practices by minimizing water consumption and reducing the need for disposable paper towels.

**Keywords: Makeup brush dryer, makeup, makeup artists, makeup lovers**

## **INTRODUCTION**

Makeup application requires precise tools like makeup brushes, but maintaining their cleanliness and drying often gets neglected. To address this, the Makeup Brush Dryer offers a revolutionary solution, streamlining the drying process. Unlike traditional methods that can leave brushes damp and unhygienic, this device uses innovative technology for quick and efficient drying within minutes. Its gentle airflow and temperature control ensure thorough drying while preserving brush quality. Designed for user convenience, the compact and intuitive Makeup Brush Dryer caters to both personal and professional needs. Overall, it enhances makeup brush maintenance, ensuring a cleaner and more efficient makeup application experience.

## **OBJECTIVES**

At ChicGlow, our mission is to revolutionize the makeup brush drying industry by offering innovative products tailored to both professionals and enthusiasts. We aim to optimize brush maintenance, ensuring cleanliness, functionality, and efficiency. Committed to innovation and excellence, we prioritize research and development to set new standards in makeup brush drying technology. Our focus is on quality, performance, and customer satisfaction, anticipating and meeting evolving needs through continuous improvement. We strive to build lasting relationships with our customers by providing exceptional pre-sale and post-sale support. Ultimately, ChicGlow seeks to transform the beauty care landscape, enhancing creativity and setting new benchmarks for excellence with our core values of innovation, sustainability, and customer-centricity.

## **NOVELTY & INVENTIVENESS**

The creation of a tool specifically meant to dry cosmetic brushes is a creative and inventive approach to a problem that both pros and beginners in the field of makeup encounter frequently. With that, we made sure that the device's unique feature, its drying mechanism, which makes use of cutting-edge technology to speed up the drying process without harming the brushes' quality. Not to mention, the device saves time for beauty artists and enthusiasts who frequently need their brushes to be ready for use right away by speeding the drying process. Its rapid and effective functioning reduces waiting time between makeup applications, enabling users to continue working smoothly. Viewing from an inventiveness aspect, the gadget's focus

on cleanliness and hygiene is one of its highlights. It assists in avoiding the growth of germs, mold, and other impurities that might develop in damp brushes by offering an exclusive drying solution. This encourages more hygienic and wellbeing-promoting skincare and cosmetic application methods. Other than that, whether used at home or in a business setting, its small and lightweight design maximizes convenience and usability. Multiple brushes may be dried simultaneously thanks to its clever layout, which maximizes output and efficiency.

## **PRACTICALLY & USEFULNESS**

The keys to our product's practicality and usefulness are timesaving. Our makeup brush dryers drastically reduce drying time, often to just a few minutes. This time-saving aspect is particularly beneficial especially for professional makeup artists who need their brushes ready for use in a short amount of time. Next, improved hygiene. Our makeup brush dryers not only clean brushes effectively but also ensure they dry thoroughly, reducing the risk of mold or bacterial growth that can occur when brushes are left damp for too long. Furthermore, the brush bristles can be preserved. Our makeup brush dryers typically use gentle air circulation to dry brushes quickly without subjecting them to excessive heat or manipulation, helping to preserve the integrity of the bristles. Besides that, convenience. Our makeup brush dryers are generally compact and easy to use, making them convenient for both personal and professional use. Lastly, professional results. Our makeup brush dryers will ensure that brushes are properly cleaned and dried between uses, allowing makeup artists to work efficiently and maintain the highest standards of hygiene.

## **CONCLUSION**

In conclusion, the Makeup Brush Dryer by ChicGlow represents a significant advancement in the field of makeup brush maintenance, addressing the common challenges faced by both professionals and enthusiasts. By introducing innovative technology that rapidly removes moisture from brushes while preserving their quality and shape, ChicGlow has revolutionized the drying process. This device not only saves time and ensures brushes are ready for immediate use but also promotes hygiene by preventing bacterial growth. Furthermore, its compact and user-friendly design makes it suitable for a wide range of users, from home-based makeup enthusiasts to professional artists. The Makeup Brush Dryer aligns with ChicGlow's

commitment to innovation, excellence, and customer satisfaction, setting new standards in the beauty industry. MakeOverall, it offers practical benefits such as timesaving, improved hygiene, convenience, and professional results, making it an indispensable tool for anyone passionate about makeup.

## REFERENCES

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