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V-MIEX

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VIRTUAL-MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

ROAD TO COMMERCIALISATION

V-MIEX BOOK



V - MIIEX BOOK

'ROAD TO COMMERCIALISATION'

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FOREWORD

ASSOC. PROF TS. DR MOHD RASDI ZAINI
Rector
Universiti Teknologi MARA (UiTM) Cawangan Melaka



Welcome to Virtual-Melaka International Intellectual Exposition 2022 (V-MIIEEX 2022). It is an honour for me on behalf of UiTM Melaka Branch to thank all of you for joining the programme and we are proud to inform you that this is the 12th year consecutively, UiTM Melaka Branch is organizing this exposition.

V-MIIEEX 2022 is a platform to improve the commercialization collaboration among industries and communities and at the same time, we also give the opportunity to academicians and students to share ideas and increase their potential innovation products with the industries and communities through their projects. This exposition also serves as a platform to cultivate and upload the nation's innovation culture by presenting new ideas and research by young people, especially from academia, universities, college, high schools, and primary school students.

The economy and development of the country faced a challenging phase in 2021 due to the Covid-19 pandemic. We faced changes in business, education, society, and lifestyle. However, the pandemic proved to be a blessing in disguise as it somehow gave people ideas which would be beneficial to improve their lifestyle and solve problems that might occur in the future. Besides, 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 the "Research, Innovation and Commercialization", this exhibition is organized to encourage more commercialization of products that are beneficial to scholars, industries, and communities to tackle such issues to improve our present and future life.

Since 2009, UiTM Melaka Branch has successfully become the organizer for this innovation exposition. We are not only successful in organizing the exposition, but I would proudly say that we have also successfully embarked on commercialized products. With the number of participants for this year's exhibition, we believe that more commercialized products will be produced in line with the theme for this year, "Road to Commercialisation".

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams as 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.



DR. NUR HAYATI BINTI ABD RAHMAN
Deputy Rector Research & Industrial Linkages
Universiti Teknologi MARA (UiTM) Cawangan Melaka

It is a great pleasure to welcome all the participants and presenters to the Virtual Melaka International Intellectual Exposition (VMIIEX 22). I am delighted that through this periodic event, we managed to bring together scholars and professionals from various fields to engage through this virtual platform where ideas and breakthrough are discovered and leveraged for commercialization potential.

Since 2009 UiTM Cawangan Melaka has held twelve Invention and Innovation Design competitions and this year we are very honoured to have the second year of VMIIEX organized in digital platform. This has proven that despite the global challenges due to the recent pandemic, it is never an issue for UiTM Melaka to continuously organize this yearly prestigious event and to support the ministry's aspiration in leveraging creativity and innovation in the new norm.

VMIIEX 22 is organized with no sole objectives of accomplishing the University's KPI but instead we are determined to make this programme as the place to help heighten commercialization collaboration in research and innovation with the industry and community through joint exhibitions from various external organizations.

Our aspiration is to also provide exposure and opportunities to academic staff as well as students from public and private universities to engage in direct excellent scholarly activities with the industry and community through activities that can be measured and assessed. As for the Research and Industrial Linkages Office of UiTM Melaka, this exhibition is seen as the platform that can encourage active collaboration and knowledge transfer with industries; objectively to support various activities that will benefit all stakeholders from the various government agencies, local and international universities, industries and communities.

Through the theme of "Road to Commercialization" this year, V-MIIEX 22 is committed to have this event as a boulevard to inspire and cultivate creativity and innovation to the numerous levels of inventors through exposure on latest technologies, astonishing ideas and creative designs with great potential to be commercialized. For this year, we proudly introduce a special category which is the "Endemic Challenge" as the provision to the government of Malaysia's goal of moving towards the endemic.

To ensure that the competing products in this exhibition is not exclusively for the purpose of competition, V-MIIEX 22 is dedicated for the commercialization of highly potential innovation products, which is attained through its active collaboration with tailored needs industries. The commercialization effort was not for income generation purpose only but it aimed to spearhead the development of quality products in line with industrial needs and community benefit.

Therefore, it is a great honour for me on behalf of the Research and Industrial Linkages Office as well as the organizing committee to have all participants in this competition and I would like to express my highest gratitude especially to the Rector of UiTM Melaka and all strategic partners and sponsors for supporting the event.

To finish, I sincerely wish VMIIEX 22 a remarkable success. I believe that this will not be the only collaboration between UiTM Melaka and the respective partners and linkages, but a beginning of a long and fruitful cooperation in future.

Thank you very much.

road to commercialisation...

WAN HASMAT WAN HASAN
Project Director V-MIIEEX 2022
Universiti Teknologi MARA (UiTM) Cawangan Melaka



Assalamualaikum and Warmest Greetings.

It gives me an enormous pleasure, on behalf of the organizing committee to welcome all participants and presenters to the Virtual -Melaka International Intellectual Exposition 2022 (VMIIEX '22) with the theme "Road to Commercialisation". We are honoured and glad to welcome all participants to this biennial event.

This is the second time that we have organized this biennial event virtually. V-MIIEEX 22 is an innovation competition, in which, innovation products, ideas and systems related to various science and technological fields are exhibited as a solution for the presented problems.

V-MIIEEX22 expectantly will be a platform that gathers experts from academies, scientists, and researchers, locally and internationally, to contribute towards the growth of scientific and technological knowledge in each participant's specialisation and expertise.

The competition also serves as a platform to give fresh exposure to the various level of inventors, as well as to encourage the culture of innovation design focused on latest technologies and related to new norms technologies and inventions due to COVID-19.

V-MIIEEX 22 is also hoped to be an avenue for gathering and disseminating the latest knowledge on ideas and acquisition of innovation among the participants. It is hoped that the competition will be able to open the mind of the participants towards latest technologies and design. It is also in line with the government's aspiration to encourage innovation activities in Malaysia.

As a final note, I would like to congratulate my fellow committee members for their tremendous effort, which have been critical to the event's success. In addition, I would like to thank our co-organizer, event sponsors and supporters. Optimistically, we wish that all new knowledge that is discovered, invented, or innovated will drive towards our future sustainability.

Thank you.

ABOUT V-MIIEEX

The world after COVID-19 is unlikely to return to the world that was. Despite the challenging pace during the pandemic, the strong rebound is expecting in this exciting year 2022. Malaysia is welcoming the great prospects ahead with positive impact on the country's economy and development. Hence, the hope for greater opportunities motivates for more creative thinkers to come up with innovative ideas that can be put forward to be harnessed to overcome similar problems in the future. V-MIIEEx 2022 is one of these platforms which contribute relevant ideas that could help communities of all walks of life cope with this pandemic.

UiTM has identified research, innovation, and commercialization to be among the core components and strategic effort towards becoming a well-known and prominent university. Aside from realizing this goal, with these components and efforts, fostering the development of knowledge, generating financial stability of the university, and producing knowledgeable academicians are also potentially achievable.

By having invention and innovation competition yearly, UiTM Cawangan Melaka is confident that it could further enhance creative and innovative abilities among staff and students. In support of the government notion which upholds the importance of innovation, UiTM Cawangan Melaka has taken the initiative of organising the Virtual Melaka International Intellectual Exposition (V-MIIEEx).

In instigating and nurturing the continuous culture of inventing and innovating, this event is an ideal platform for lecturers, administrative staff, students, and the public to showcase and commercialize their products or prototypes as well as novel ideas. The first IID which was held nationally in UiTM Cawangan Melaka in 2009, has successfully gathered and displayed more than 37 inventions and innovations. Accordingly, to continue this strong passion towards inventing and innovating, the IID competition should be continued and celebrated.

With that, the Division of Research and Industrial Linkages will be organising its 12th IID competition, the Virtual - Melaka International Intellectual Exposition (V-MIIEEx 2022) with the theme, 'Road To Commercialisation'. V-MIIEEx 2022 hopes to welcome 200 competing products to be showcased and commercialized, at the same time, attract attention of related and matching industry.

Objectives

1. Encourage and instill 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 skillful 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.

Papayalicious Crispy

Muhammad Firdaus Bin Baharum, Nur Aiyra Faqihah Binti Azelan, Nor Shafiza Binti Che Azmi, Nur Syafiqqah Binti Khalid, Nur Hazirah Binti Khair Azahar, Nornajihah Nadia Hasbullah

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Abstract

Most people familiar with banana chips, tapioca chips and potato chips. But how about papaya chips? Responding to SDG 2, the research's come put with papayalicious crispy to minimize the water of excessive fruit. According to UNDP, 1.3 billion tons of food is wasted every year with almost 2 billion people are hungry and undernourished. This is a reality and we need to overcome the issue by generate a good idea and transforming the excessive food into the new food creation. On the other hand, papaya chips are created in order to satisfy consumer wants in a healthier way. This healthy snack contains high level of antioxidants, vitamin A, C, and E. It also good for human heart because the antioxidants help to avoid the oxidation of cholesterol. Papaya snacks suitable to be consume by everyone including kids. Following the notion, papaya chips have a high potential to be commercialize and can be a substitute of junk food and available of unhealthy snack on the market area.

Keywords: Papayalicious, vitamin, small business, food waste

1. INTRODUCTION

A product known as "Papayalicious Crispy" make uses of papayas in the place of potato chips. The papaya has various health advantages, some of which include improved digestion, a stronger immune system, healthier skin, and an excellent source of antioxidants. It has a high concentration of vitamins C and A, as well as folic acid and fibre. This product is sanitary, free of preservatives, yet crisp and flavourful all at the same time. The papaya serves as this product's primary food source and component in its production. The name "Papayalicious Crispy" comes from the snacks that are cut very thinly and then fried till they reach a crispy consistency. Because there was a taste in these chips such as sweet, they had a really unique quality about them. This product had its own benefits, such as the ease with which it could be prepared and the use of components that were relatively inexpensive in its production. This project's goal is to come up with a concept that can be used to create an innovative new food product that is based on agriculture.

2. OBJECTIVE

The following are some of the goals that Papayalicious Crispy target from the new product development. First, Papayalicious Crispy or papaya chips is made up to innovate or enhance the cuisine that is based on papaya. Papaya chips are made to satisfy the healthy snack craving among Malaysians who give prioritize to their healthy status. Lastly, this product can produce

the best quality food while gain a profit for the company. With a full of responsibility, our company implement the SDG 2 to minimize the waste of excessive food. According to UNDP, 1.3 billion tons of food waste every year with almost 2 billion peoples are hungry and undernourished. Reflecting to that, we use an excessive ripe papaya fruit to make this healthy snack and able to avoid some waste.

3. NOVELTY & INVENTIVENESS

Papayalicious crispy is innovated from the semi-ripe papaya fruit as a snack. Due to difficulty of papaya to be stored for a long period, our innovation able to cover this limitation. There are many people who are less interested in papaya fruit whereas it has high nutrients and is good for the body. These Papayalicious crispy are also innovated for those who do not eat raw papaya and also for those who loves to eat papaya. Some children refused to eat fruit or vegetables, hence with the renovation of the fruit by using the papaya to a snack will make the children like to eat the fruit and also for adult to eat everywhere with affordable prices.

4. PRACTICALITY & USEFULNESS

This papaya chips are also a healthy option snacks for diet as it contains low calories but full of nutrition. Besides that, the goodness of papaya chips is readily available to be enjoyed in a convenient package together with families, friends and also for travelling. Therefore, the ‘Papayalicious Crispy’ papaya chips are intentionally created to give benefits to the local community. With the creation of this papaya chips, it is expected to help the farmers and small – business owners to sell and boost their products through local markets as well as international markets.

5. CONCLUSION

In conclusion, ‘Papayalicious Crispy’ is the very suitable for all people especially young and adult. This product is no preservatives, prepared and packaged in very highly hygienic to ensure the people can eat. We also hope this product can get highly demands from consumer and buyers. With SWOT analysis can help in further increasing the strengths, opportunities and reducing weaknesses and threats from other companies and hope to get achieve the target market and can avoid the marketing risk of the company. Lastly, our company can get to produce the product that have brand, and good designing of packaging and customer can get use or product and become loyal customer.