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PEKAN REVIEW
e-newsletter

Bridging Universiti Malaysia Pahang to the world community

UMP and CIDB established Building Information Model (

The collaboration between Universiti Malaysia Pahang (UMP) and Malaysia Construction Industry Develo Industry Model (BIM) ecosystem for national transformation is seen as successful amidst the high i construction industry worth RM1.4billion that brings about various benefits and changes.

It also involves drafting of policies, transfer of technology and knowledge, human capital developmen Building System (IBS).

BIM is a modelling technology and sets of processes that are related to produce, communicate, analyse ar the construction life cycle.

Processes that are based on BIM model will provide information for architects, engineers and professional buildings and infrastructure efficiently.

UMP Centre of Excellence for Construction Industry Cluster Director, Associate Professor Dr. Mohd Yu university, CIBD also provided financial assistance for various projects and programmes, module dev establishing international cooperation and holding professional certification training worth almost RM 2016-2018.

“Under this initiative, UMP has also transformed the industry from one that uses conventional metho supporting the needs and challenges of the Industrial Revolution 4.0, as outlined in the Construction Indus said.

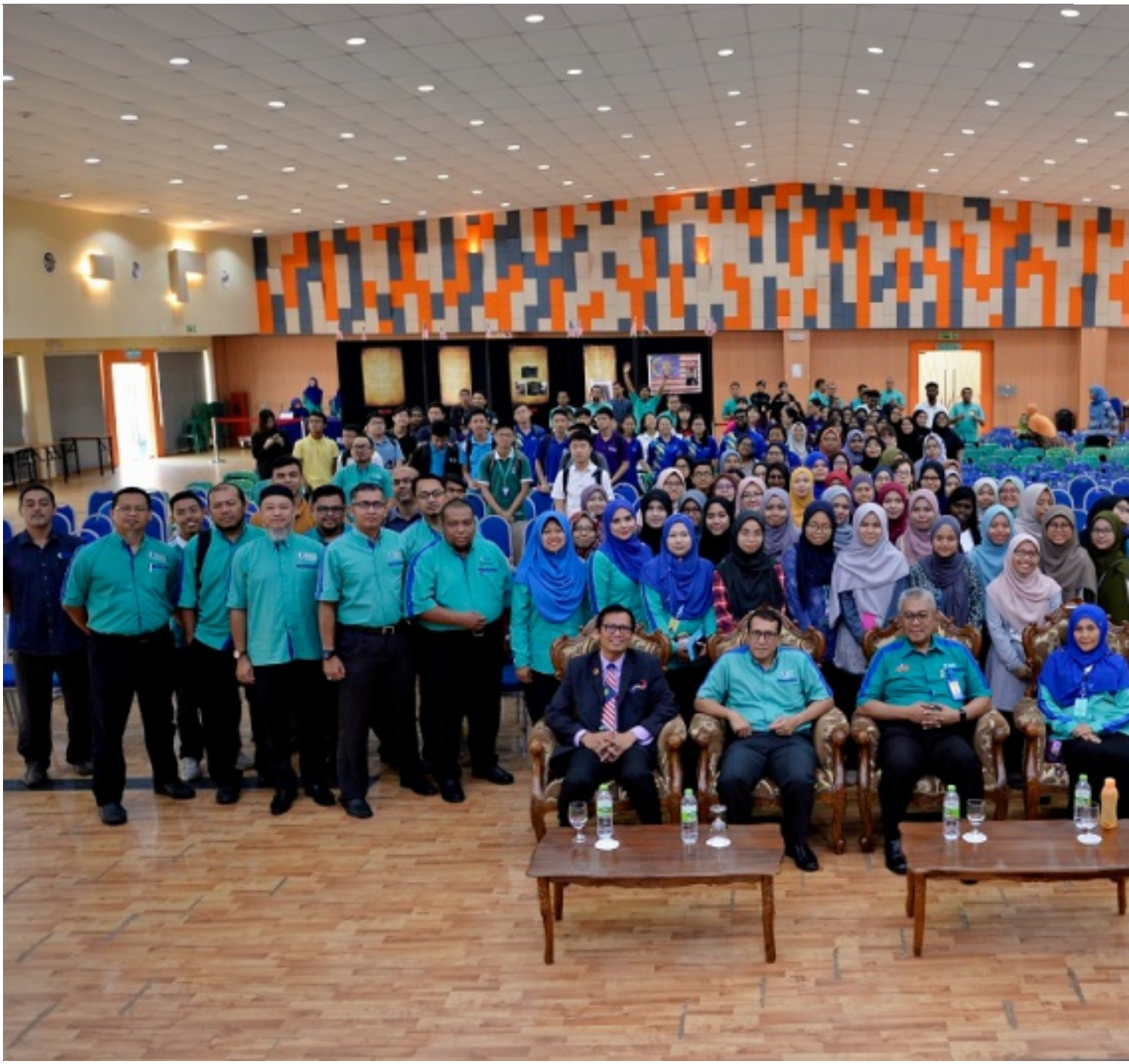
As a mark of appreciation, UMP named CIDB as the recipient for the Industrial and Community Excellence

The award was presented during UMP Quality and Innovation Day 2019 ceremony that was held at th
September 12, 2019.

Scomi Transit Projects Sdn. Bhd. Director and invited speaker of UMP CEO@Faculty Programme, Roha
Pahang CIDB Director, Saini Saidi, representing CIDB Chief Executive Officer, Datuk Ir. Ahmad Asri Abdul

Among the guests at the ceremony were UMP Board of Director Chairman, Dato' Sri Ibrahim Ahmad and U
Azhar Wan Yusoff.

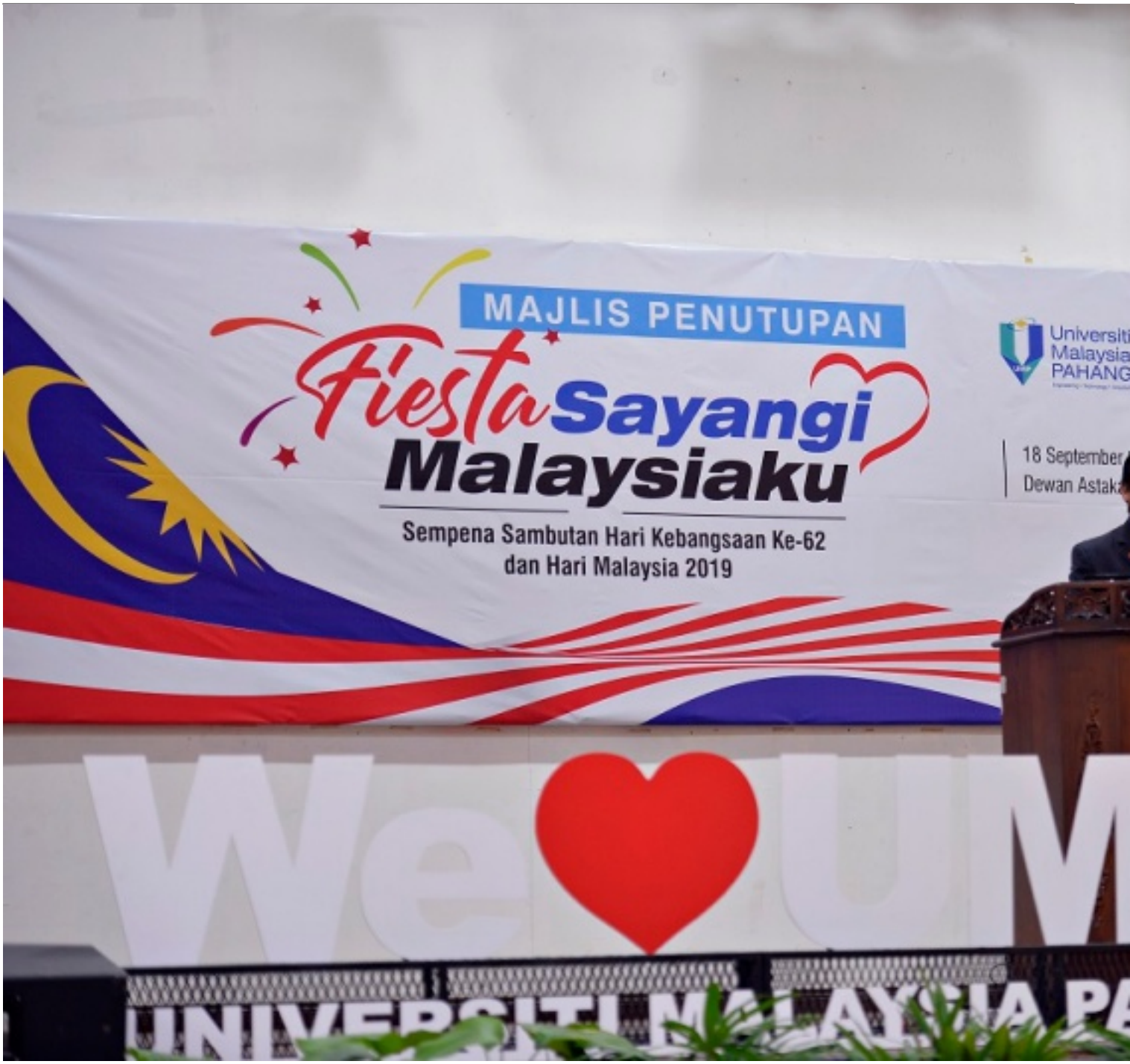
Unity, a priceless gift and needs to be well-look



Unity is an invaluable gift and needs to be uphold as well as appreciated by all people living in a multi-racia

Unity is a creation that comes from people with diverse ethnicity and religions having mutual respect of
mindful of their sensitivity, religion and culture, for the sake of harmony.

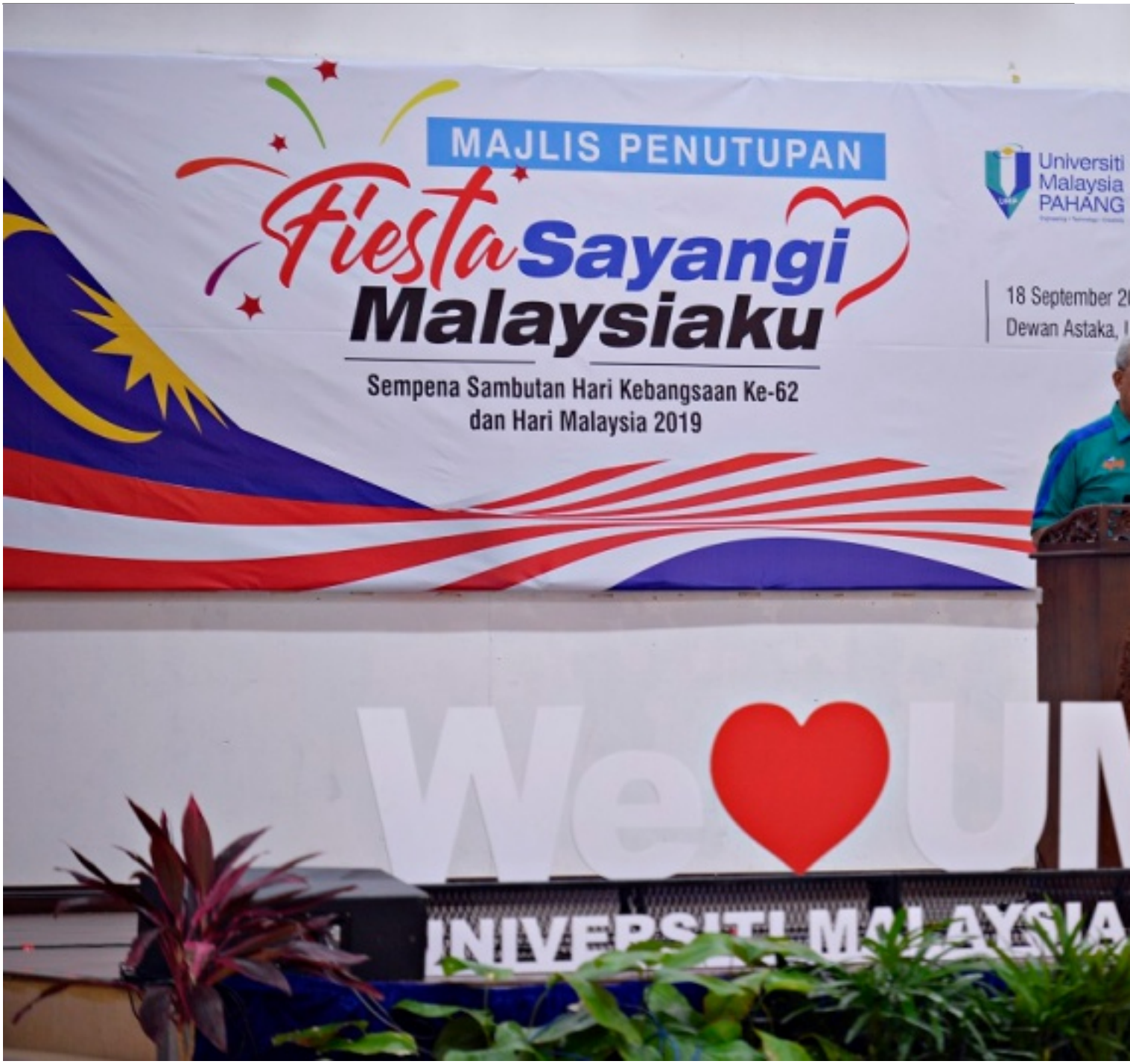
According to Dr. Al-Azharri Bakr Kamunri of the National Security Council under the Prime Minister's
appropriate one, something to be valued together by Malaysians and the government in a move towards
shape country.



“When we have a feeling of togetherness, the differences among the races can be easily overcome. understand that in this modern world, we cannot live alone. We are in need of each other.

“If we do not have this oneness spirit, the country’s future threat will be due to racial disunity,” he sa conjunction with the closing ceremony of Love My Malaysia Fiesta.

The fiesta was held in conjunction with UMP National Day celebration organised by the Registry Departm on September 18, 2019.

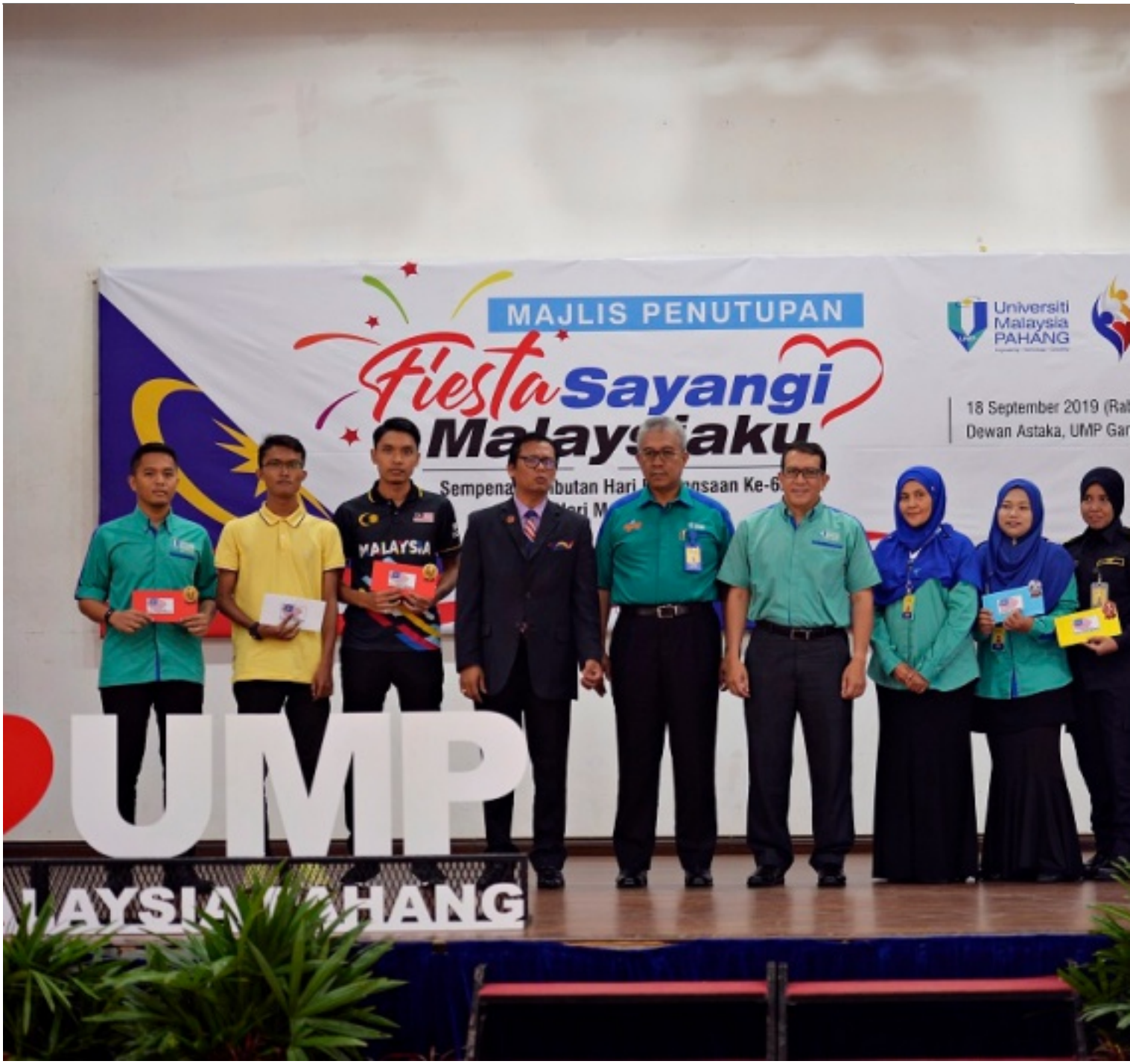


He added that if disunity among races happened in the future, it was not due to the generation of that time b unable to infuse unity well enough.

“If we are still into things that can cause disharmony, this will only inculcate negative culture for the next ge

“The most important thing for the leader of today is the need to promote the Malaysian values well enoug past leaders in their efforts to gain independence,” he said.

He reminded the university students and the new generation to always remember the contributions of the nation would prevail.



Also present at the programme were Deputy Vice-Chancellor (Student Affairs & Alumni), Professor Dato'
Directors' member, Professor Dato' Ts. Dr. Rosli Mohd Yunus.

According to Professor Dato' Dr. Yuserrie, UMP organised the National Day celebration every year with v
patriotism.

"These activities demonstrate a unique perspective of patriotism, in the context of UMP being an ivory tow
generation to appreciate the meaning and value of independence, and to do so with such awareness and g

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ProSES Symposium – exploring into Chemical Enginee

More than 70 people attended the Process Systems Engineering and Safety (ProSES) Symposium 2019 and Safety Research Group, Faculty of Chemical and Process Engineering Technology (FTKKP).

The participants comprised academicians, industry experts and UMP students.

Themed, 'Process Modelling and Simulation towards Industrial Revolution (IR 4.0)', the symposium September 13, 2019.

Sixty paper works on modelling and simulation were presented at the symposium and among the keynote Hashim from Universiti Teknologi Malaysia (UTM) and Professor Dr. Azmi Mohd Shariff from Universiti Tek

Professor Ir. Dr. Haslenda Hashim said that over the years, researchers had made many researches in pre smaller scale involving molecules right up to those that could be applied by the industries.

Professor Dr. Azmi, meanwhile, suggested that researchers to come up with works and findings that could

The symposium was officially opened by Dean of Industry Innovation, Research and Innovation Departm Abdullah.

Also present was FTKKP Deputy Dean (Research and Graduate Studies), Associate Professor Ts. Dr. Sum

In his speech, Associate Professor Dr. Abdul Adam said he was pleased that the faculty was able to orga first time.

He also said the paper works presented would be published in the Journal of Chemical Engineering a Journal) and IOP Material Science and Engineering (Scopus-indexed proceeding).

"UMP is committed in conducting research and commercialisation activities in the engineering process and mineral, oil, gas and pharmaceuticals.

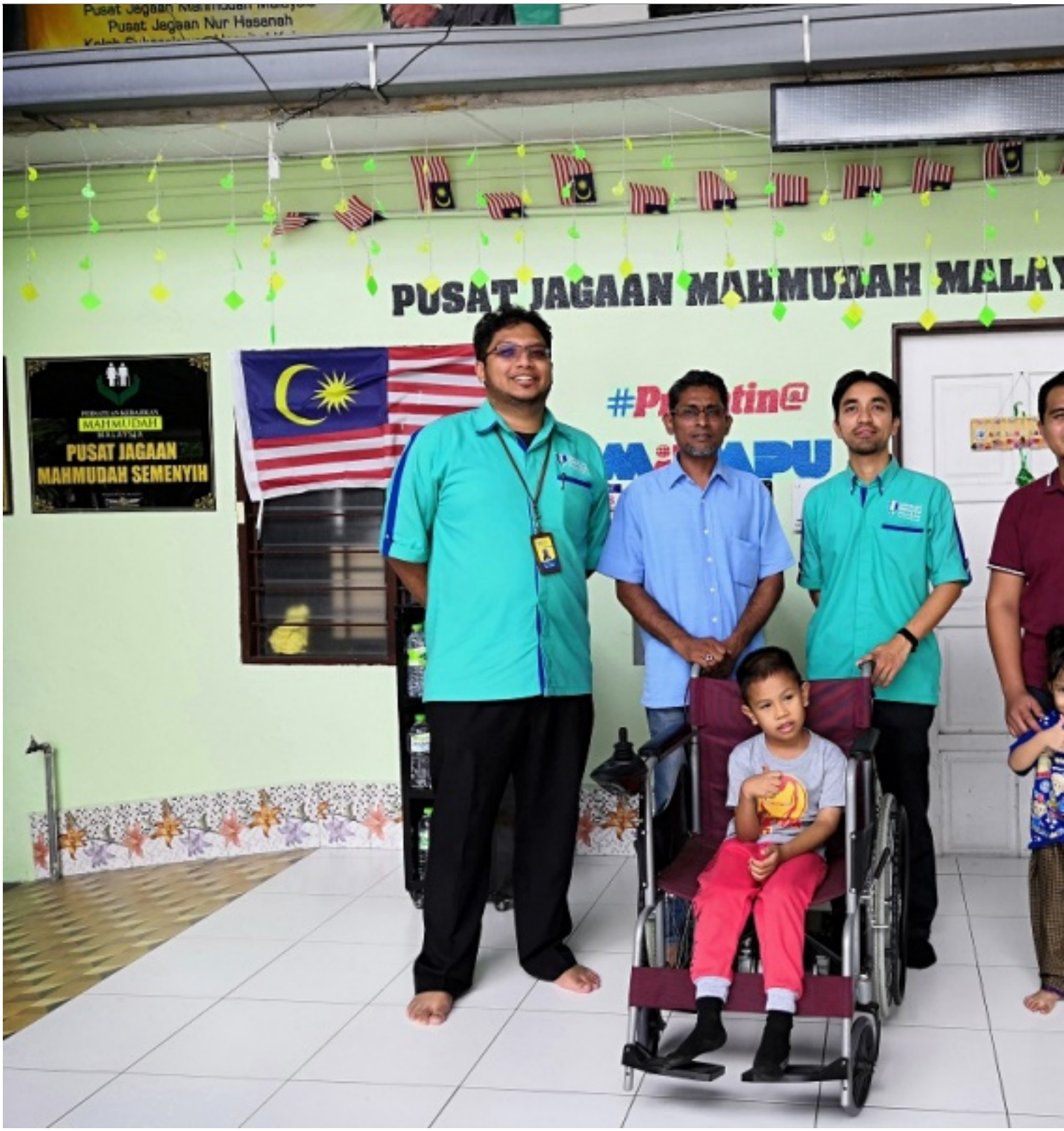
“The faculty has been involved in several projects such as halal gelatine production, halal capsule proc
known as microcrystalline cellulose which is jointly developed with Pahang Agriculture Development Board.

“UMP has also managed to obtain RM10 million from the government’s Fundamental Research Grant
channelled to the faculty,” he said.

According to Programme Director, Associate Professor Dr. Mohamad Rizza Othman, the symposium was
technology and knowledge on the latest research findings in process modelling and simulation as we
researchers and industries.

He hoped that the symposium would spur the researchers’ interest and awareness in matters involving s
IR4.0 era, its significance to expand and put into practise by the industry.

Wheelchairs with adjustable motorised kit for th

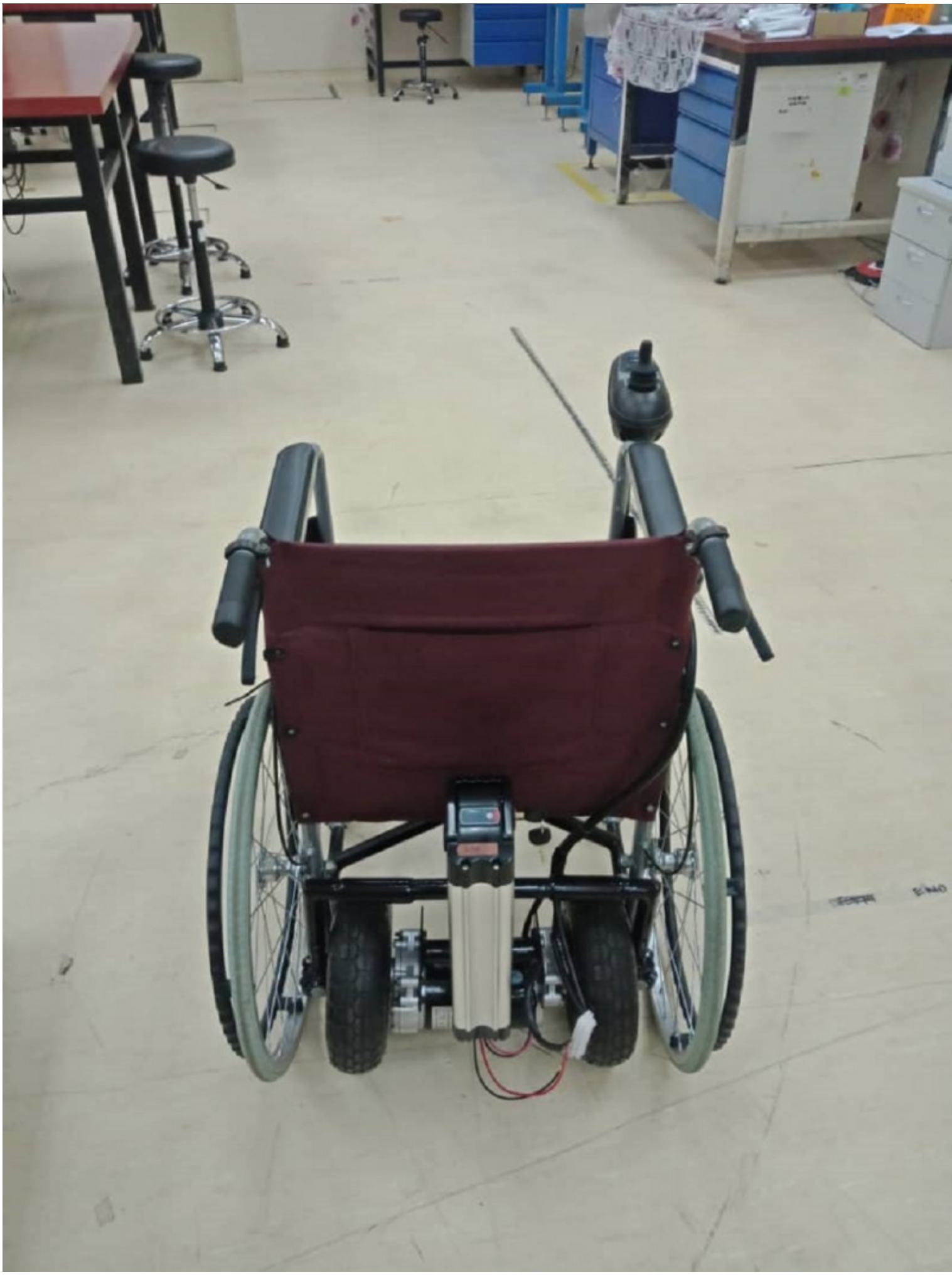


Two Universiti Malaysia Pahang (UMP) lecturers had come up with an adjustable motorised kit for wheelch elderlies and handicapped.

The lecturers, Dr. Mohamad Heerwan Peeie, 32, from Faculty of Mechanical and Automotive Engi Kamarulzaman, 33, from Faculty of Computing were concerned with the difficulties faced by the elderlies i they moved around using the normal wheelchair.

As such, they came up with the idea for a motorised kit that could be fixed to a wheelchair, allowing the use

This would help reduce the burden of staff or caretakers in the centre as well.



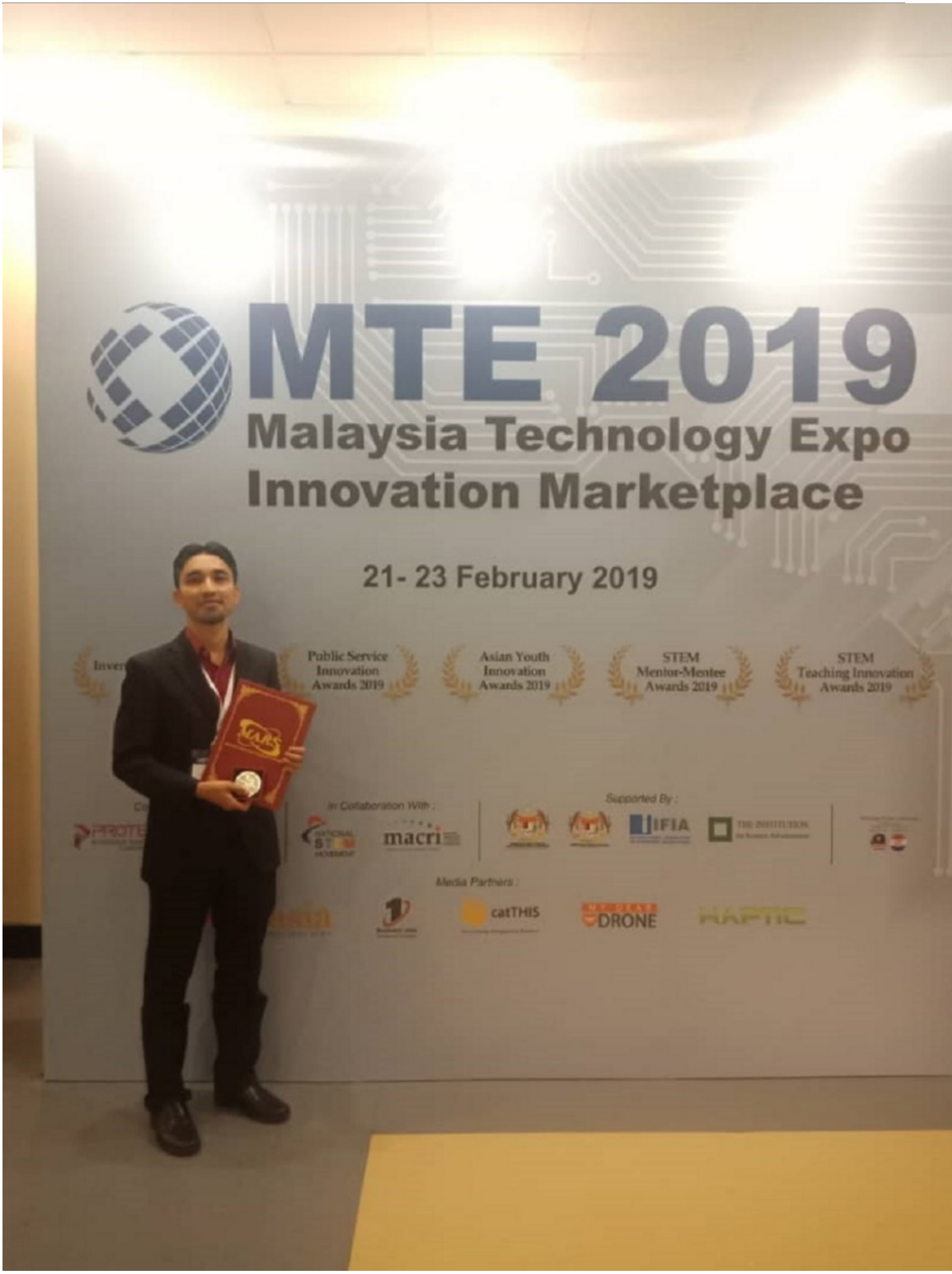
Dr. Mohamad Heerwan said the freedom to move around on their own could help boost their confidence a
a more cheerful place for them.

On the product, Dr. Mohamad Heerwan said it was made based on the standard wheelchair design availab

“The electrical motor module, battery and control is specially designed so it can be fixed to any type of
based on the height and size of the wheelchair.

“The module only needs two hours of charging and can be used up to eight hours. The battery has safe
speed can be adjusted.

“The control system can also be adjusted based on the user’s hand, be it left or right. It can used by the h
wheelchair more easily.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Asian Youth Innovation Awards 2019
STEM Mentor-Mentee Awards 2019
STEM Teaching Innovation Awards 2019
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“The motor inside the kit can withstand up to 100 kg of a person’s weight and climb a steep of 20 degrees w

Dr. Syafiq also said the research conducted for this project was aimed at providing better mobility for se could go on with their daily routines with less difficulty.

“It would facilitate the caretakers as well,” he added.

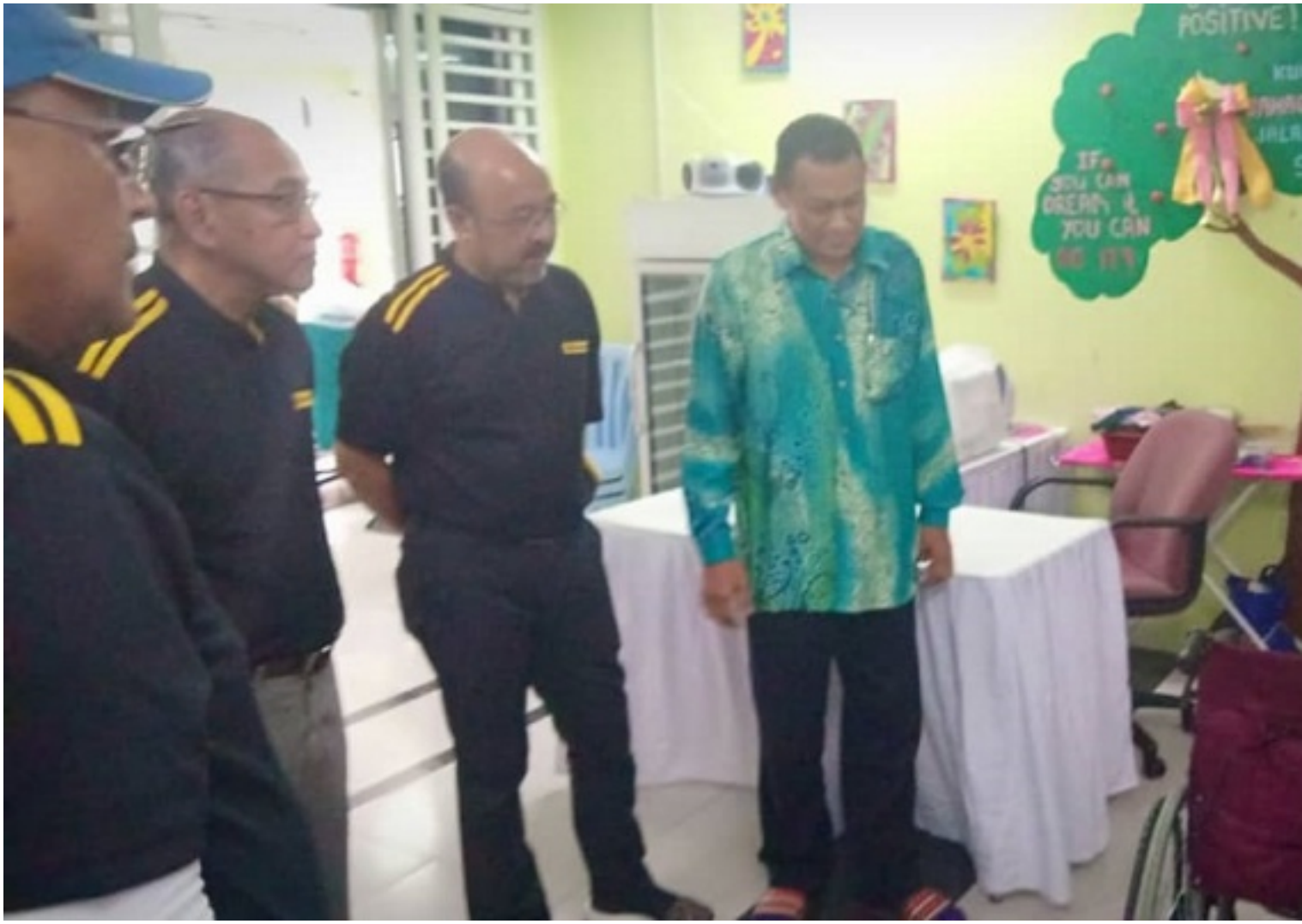
“As a result of this cooperation with Mahmudah Care Centre, the residents can now move more freely efficiently,” he said.

As for Mahmudah Care Centre Manager, Sazali Mohidein, he lauded the collaboration formed with th because the centre was short of staff to help residents go to the surau, the dining area or do light exercises

Dr. Mohamad Heerwan and Dr. Syafiq Fauzi were Fellows of the Automotive Engineering Centre (AEC).

Work on the research started after Dr. Mohamad Heerwan received a grant for the project, which began i design for the commercial market was created.

They also received support from the UMP’s Research & Innovation Department which awarded them the ur



The cost is estimated at RM2,500 and the product, which received a silver medal at Malaysia Technolog market by early of next year.

Dr. Syafiq also said in the future, they planned to introduce element of Internet of Things (IoT) in the kit that

“We plan to introduce biometric features that can gauge the person’s breathing, heart rate and body te monitored online and recorded to help detect any symptoms of ailment,” he added.

He also welcomed contributions from the public for the centre.

“The contributions will not only help with the centre’s daily essentials but also help to develop technology the residents and improve their lifestyle.

“If the needs of a centre can be connected to the right platform of solution, quality and important innovation

“It is also suggested that more match-making initiatives between the research products of UMP lecture crowd funding platform,” he said.

Dr. Mohamad Heerwan and Dr. Syafiq Fauzi were researchers with more than five years of experience whe

Dr. Mohamad Heerwan’s expertise is in automotive especially in electrical vehicle, control system and robo

Dr. Syafiq Fauzi’s expertise is in electronic and computer science. He is now involved in a research involv system and robotic.

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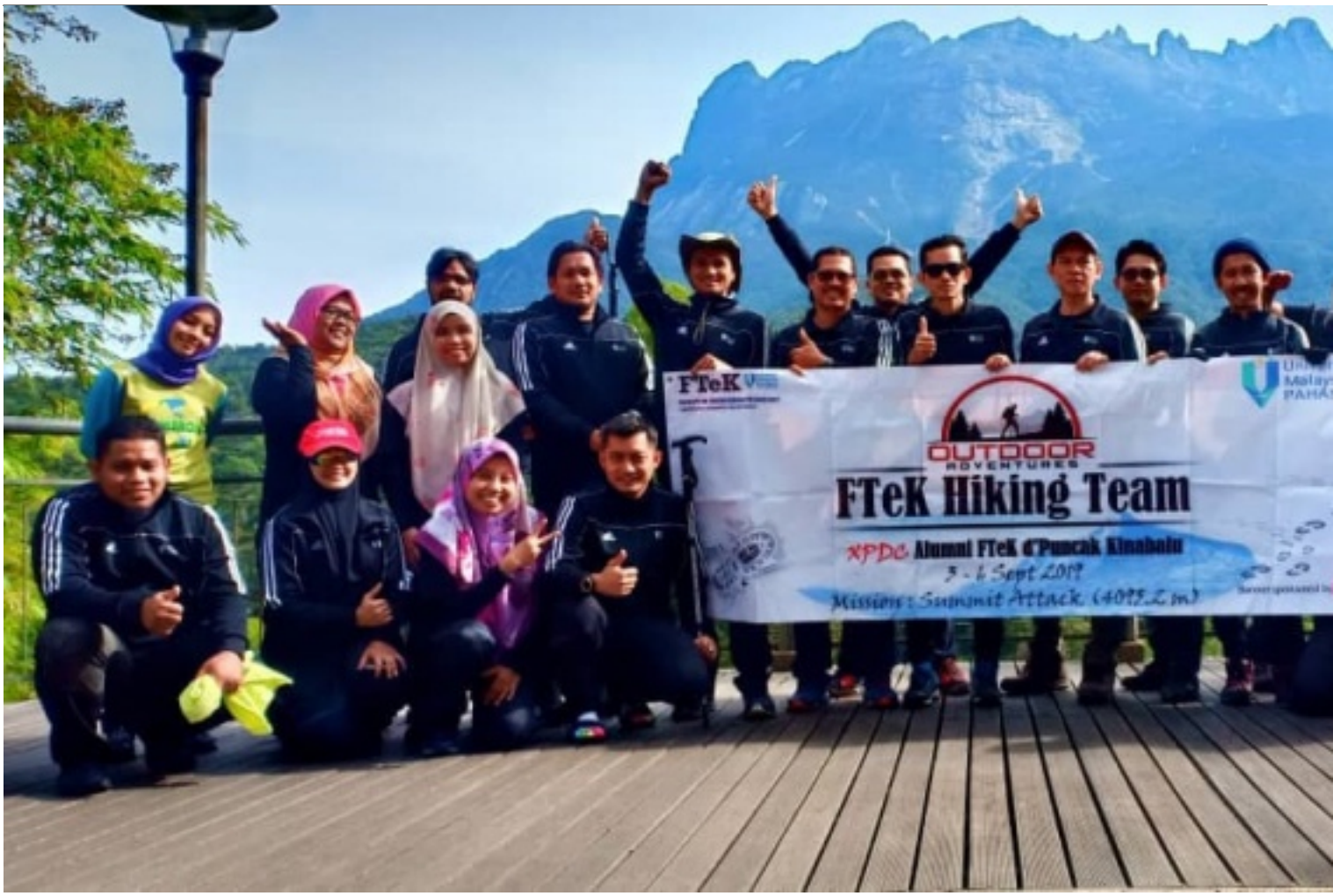
20 UMP staff ‘conquered’ Mount Kinabal



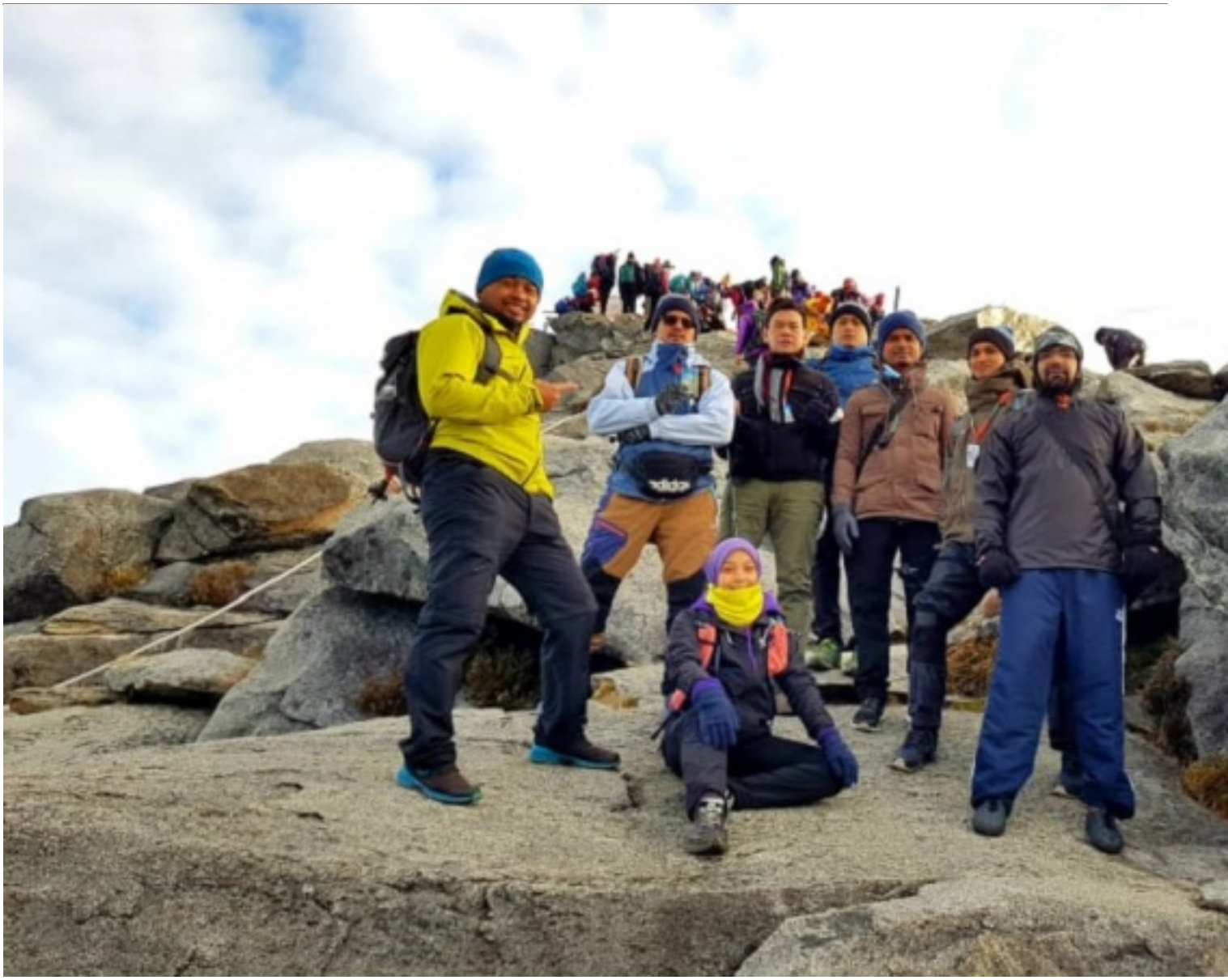
By: MOHD SHAHRUL AZUAR, D'PUNCAK EXPEDITION PROGRAMME DIRECTOR

September 6, 2019 was a historical and memorable date for 20 Universiti Malaysia Pahang (UMP) staff w
the highest peak in South East Asia, standing at 4,905.2 metres (13,455 feet) from sea level.

According to d'*Puncak* Expedition Programme Director, Mohd Shahrul Azuar, the participants who were fro
mental training by having hiking trainings to ensure that they were fit for the climb.

"Planning for the expedition began early this year which was in support of the university's call for healthy life

"We took up the challenge that tested our mental and physical strength as well helped instil teamwork sp
strong and sturdy self-confidence," he said.



All of the participants started their climb at the Timpohan Gate after listening to a briefing at 9am be challenging steps that included vertical ascends.

They reached the Laban Rata base camp which was located 3,272 metres from sea level and continued their mission to be on top of the mountain, known as the Low's Peak.

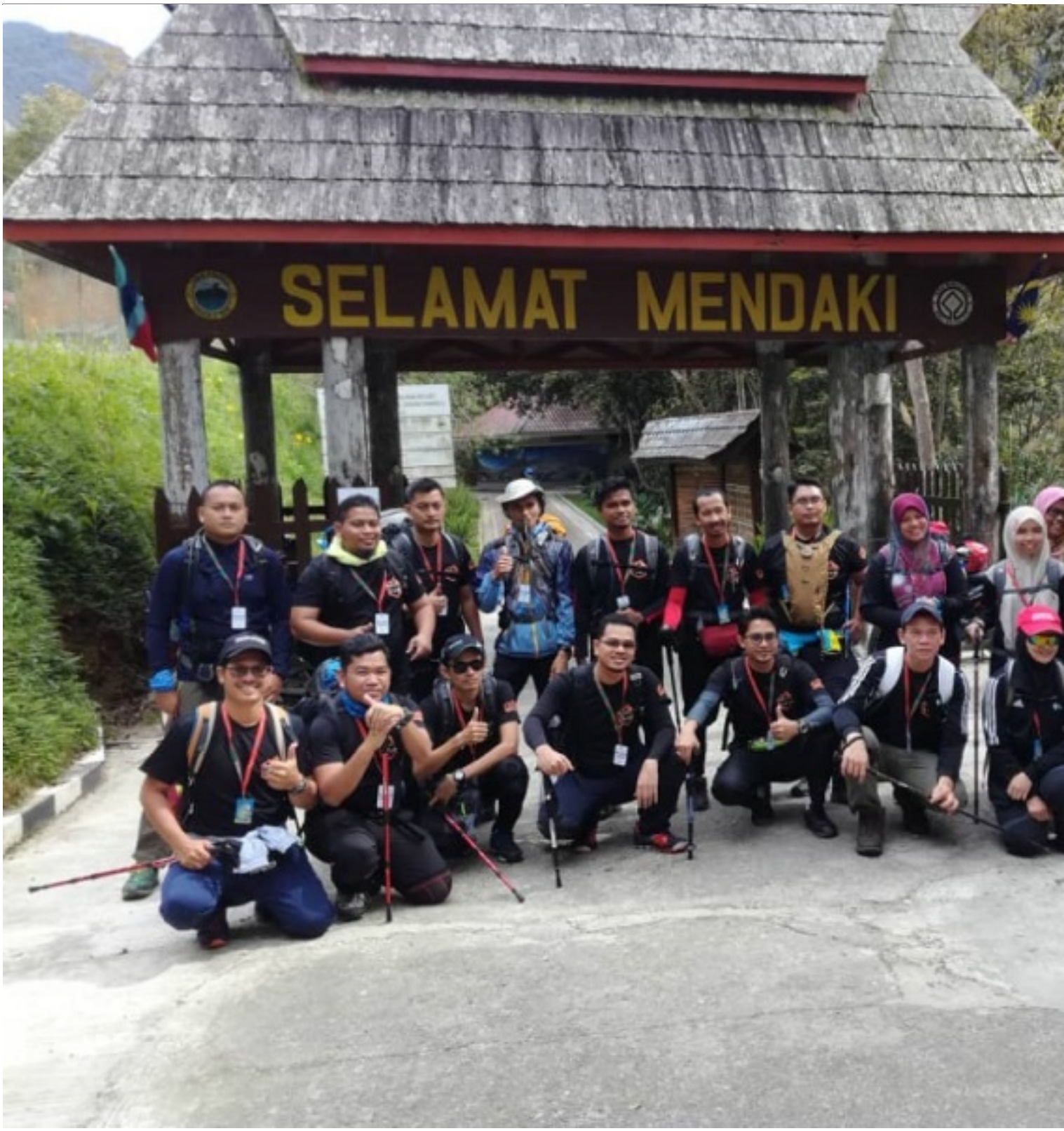
They moved in smaller groups during the cold and dark climb, accompanied by the mountain guides.

Some managed to reach in time to see their hard work paid off to watch the beautiful scenery and sunrise.

After four hours of climbing that really tested their physical and mind strength, 10 of them completed their m

No words could explain their feelings upon reaching the top of Mount Kinabalu.

One of the participants, Dr. Amir Abd Razak said it was a proud achievement when all of them reach experiencing a 'summit attack' earlier in the morning.



“We had to endure strong wind and cold weather with the temperature dipping at 3 degrees Celsius,” he sa

The participants comprised heads of department, lecturers and staff members from Faculty of Civil E Electrical and Electronic Engineering Technology (FTKEE), Faculty of Chemical and Process Engineering T and Automotive Engineering Technology (FTKMA) and College of Engineering. Previously, they were Facu

According to Professor Dato’ Dr. Zularisam Abdul Wahid of FTKA, it was difficult to breathe normally becau

“Although not everyone managed to reach to the top, it was not however the main objective. I am proud wi expedition.

“My advice for the participants was for them to believe in their own ability and to strive for their own experience and valuable when facing with all kinds of challenges including those at work,” he said.

He added that he was proud to see the spirit and commitment of the participants and those involved in mar expedition.

“It was an exhaustive experience but it did not deter them from celebrating their accomplishment in comple remember for the rest of their lives.

“It was indeed very meaningful and historical as it was accomplished at the time when the faculty was unde its organisational restructuring,” he said.

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