



THE INSTITUTION OF ENGINEERS, MALAYSIA

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TECHNICAL VISIT TO SINGAPORE: A SHOWCASE OF AUTONOMOUS VEHICLE

(Organised by the Highway and Transportation Engineering Technical Division, IEM)

Date : 22nd August 2017 – 24th August 2017 (Tuesday - Thursday)

Venue : Singapore

BEM Approved
CPD/PDP: 13
Ref No: IEM17/HQ/333/V

SYNOPSIS

The main objective of the technical visit is to visit the exhibition of autonomous vehicle show case in Nanyang Technological University and Science Park. Autonomous vehicle is one of the major development of the vehicle history and it will become an important choice of transport in the future. In this visit, we are going to spend a day at the Exhibition on Autonomous Vehicle in Nanyang Technology University. We will be exposed to the Autonomous Bus Project Navya Arma. NAVYA ARMA is the first entirely autonomous series vehicle (i.e. achieving the highest level of autonomy possible: Level 5) based on French technology. Launched in October 2015, the NAVYA ARMA is a 100% electric and autonomous transport vehicle. The innovating and intelligent driverless shuttle can transport up to 15 passengers and safely drive at 45 km/h. The NAVYA ARMA calls upon state of the art technologies, developed to ensure safety, comfort and performance. NAVYA ARMA is currently being tested in Singapore, where it ferries passengers between the NTU Campus and the Clean Tech eco-business park roughly 1.5km away.

Another highlight of the visit is the Singapore Science Park. Situated along Singapore's Technology Corridor, the Singapore Science Park 1 & 2 are amongst Asia's most prestigious addresses for R&D and technology development. The park is also part of the vibrant Greater one-north community together with notable neighbours including the National University of Singapore (NUS), National University Hospital (NUH) and the one-north development. We will be visiting the TUV SUD Digital Centre and PSB Automotive Test Labs at the Science Park with the objectives to witness the showcase of the Digital Centre, Smart test labs and meet the SUD key AVT automotive engineering people. The projected outcome of the visit is to understand how the autonomous vehicle could be applied in the field and what we can do to import the system into Malaysia.

POSTPONED UNTIL FURTHER NOTICE

ITINERARY OF VISIT

22nd August 2017 (Tuesday) Day 1		23rd August 2017 (Wednesday) Day 2		24th August 2017 (Thursday) Day 3	
6.30 am	Meet at IEM Building, Petaling Jaya & board a coach to Johor Bahru	8.00 am	Breakfast at Hotel	8.00 am	Breakfast at Hotel & Checkout
		9.30am	Meet up session with Nanyang Technological University	9.00am	Visit to Land Transport Authority
9.00am	Coach departs for Johor Bahru. Network with fellow participants on the coach	12.30pm	Lunch (provided by NTU)	12.30pm	Lunch at own cost
		2.00 pm – 5.00 pm	Continue Visit Nanyang Technological University	2.00pm	Board coach continue to travel back to KL
11.00 am	Drive into Singapore via 2nd Link	Night	Free & Easy	6.30pm	Expected to arrive in Petaling Jaya
12.30 pm	Lunch in Singapore (on own expense)				
2.00 pm	Visit to Science Park				
6.00 pm	Check in hotel				
Night	Free & Easy				

The visit is strictly limited to only **30 participants** registered on a **first come, first served basis**. Members, whom are interested to join the trip are requested to return the attached reply slip to the IEM Secretariat by **15th August 2017** together with a non-refundable commitment fee. Please make payment to **"The Institution of Engineers, Malaysia"**. After the closing date, IEM reserved the right to allocate seats on first come first serve pay basis. Members are also reminded that if a place is reserved, IEM may cancel the reservation if payment is not received. IEM maintained the reserved seat and the intending participant failed to attend the visit on the date of the event, the fee will still have to be settled in full.

Ir. Richard Wong Chuen Fun
Chairman, Highway and Transportation Engineering Technical Division

REPLY SLIP (Email to roselein@iem.org.my or Fax to: 03-7957 7678)

TECHNICAL VISIT TO SINGAPORE

I wish to participate in the above visit and I enclosed herewith a (Cash/Cheque No.): for the amount of..... as my commitment fee for the visit. (Cheque : to write Name & Tel No at the back)

Name of Member : M'Ship No :
Date : Signature :
T-shirt Size (circle one) : XS / S / M / L / XL / XXL / XXXL

I will be participating in the visit at my own risk and hereby indemnify fully the IEM from all claims arising from any injury, damage or loss that may be sustained by me.

.....
(Date)

.....
(Signature)

APPLICATION FORM
TECHNICAL VISIT TO SINGAPORE
22nd August to 24th August 2017 (Tuesday to Thursday)

1. Participant

- a. Name: _____
 b. NRIC No: _____ (Necessary for security clearance into military establishment)
 c. IEM Membership No: _____
 d. Contact No: _____ (most easily reached)
 e. Company's name: _____
 f. Company's address: _____
 g. Member of Highway and Transportation Engineering Technical Division (HTETD): Yes/No*
 h. Engineering Discipline (please specify): _____
 i. For Emergency, next of kin to contact : _____
 j. Tshirt Size (circle one) : XS / S / M / L / XL / XXL / XXXL

2. Spouse (Accompanying during the visit)

Name	NRIC / PASSPORT	Sex (male/female)	Age

3. Accommodation

The visit shall be 2 nights stay (22nd & 23rd August) in Nanyang Technology University and accommodation shall be arranged by the organising committee. It shall be block booked to benefit from discounts and single (unaccompanied) participant may opt for twin sharing or single room occupancy. Please indicate below (✓) accurately: (Subject to availability)

- a. Choice of room occupancy

(1) Single () (2) Twin Sharing (✓) (3) Single ()

4. Transportation

Bus (tour-class) shall be provided as a means of transportation. Participant who wish to travel with own transportation is to indicate below. Further detail on the point of meet will be given. Please be punctual.

- a. Bus () b. (Own car/ motor cycle) please tick accordingly.
 Call No: _____

5. Food & Beverage

Date/Day	Meals	Remarks
22nd August 2017 (Tuesday)	0800 – Breakfast (at PLUS Highway R&R) 1230 – Lunch (in Singapore) 2000 – Dinner (in Singapore)	Meal at own cost Meal at own cost (bus will stop at pre-arranged restaurant) Dinner at own cost
23rd August 2017 (Wednesday)	0800 – Breakfast 1230 – Lunch (in Singapore) 2000 – Dinner (in Singapore)	Breakfast at Hotel Meal (will be provided by NTU) Dinner at own cost
24th August 2017 (Thursday)	0800 – Breakfast 1230 – Lunch (in Singapore)	Breakfast at Hotel Meal at own cost

Note: for reasons of ease of organization, charges for food & beverages provided (where arranged by committee) will be levied regardless whether participant consume or not.

6. Registration Fee(Subject to GST 6%)

Designation	Per pax – twin sharing room (RM)	Per pax – single room (RM)	AMOUNT
Graduate/Corporate Member	1,000.00	1,500.00	
Graduate/Corporate Member from JB (Discount RM50)	950.00	1450.00	
Non IEM Member (or spouse)	1,200.00	1,700.00	
TOTAL			

Please make payment to “The Institution of Engineers, Malaysia” vide cheque/cash/ not later than **15th August 2017**. Payments guarantee placement in visit group. Please assist the committee in order to make the program a success and enjoyable one. (Cheque to write Name & Tel. no at back)

Note:

(*) Please delete where applicable

(**) Please note that you may choose participant that is sharing with you, to specify your partner in advance, if not, assignment of sharing partner will be at committee's discretion.

(***) This application form is to be submitted together with payment.