

Semar and Chem-E-Car UGM Ready for International Competitions

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Rector of UGM released Semar and Chem-E-Car UGM teams that would compete in national and international events.

The Semar team will take part in *Shell Eco Marathon Asia 2019* in Sepang International Circuit Malaysia from 28 April-2 Mei 2019, while the Chem-E-Car in the *8th Indonesia Chem-E Car Competition (ICECC)* at Institut Teknologi Sepuluh Nopember, Surabaya, from 21-24 March 2019 as well as the *14th Malaysia Chem-E Car Competition (MCECC)* at UniKL Micet Alor Gajah, Melaka, Malaysia from 29-30 March 2019.

“We are very proud of these two teams that have won various competitions. We hope you would be optimistic for the competition and be the best,” said the Rector, Prof. Ir. Panut Mulyono, M.Eng., D.Eng., when releasing the teams on Tuesday (19/3) in Balairung UGM.

For the event in Sepang, Semar team will carry 2 cars, Semar Urban 3.1 and Semar Proto 2.0, which will compete in 2 categories, *Urban ICE (Internal Combustion Engine)* and *Prototype Electric*.



Team chairman, Wildan Chairuzzein, said the 18 Engineering students started research in June 2018 to develop the cars. He said both cars were lighter than the previous year and had low coefficient of drag. The Semar Urban now uses new engines with lower capacity or 110 cc from previously 125 cc, while Semar Proto uses electric motor of 250 W from previously 1 KW.

“We are confident we can earn the first winner title in the category of *Urban ICE*, *Prototype Electric*, and *1 Drivers' World Championship Regional Asia*,” he said.

Meanwhile, Chem-E-Car team designed 4 cars, Reactics Akasha, electric mini-car using fuels from voltaic cells reaction, and Reactics Garuda, Reactics Rahwana, as well as Reactics Sembrani, a gas car using pressured gas as fuel.

“One of the developments we made was the selection of reaction and catalyst materials. We are encouraged to always explore the materials that we use,” said Rizky Alif, Chem-E-Car team chairman..

The Reactics Akasha and Reactics Garuda that has 9 members will compete in the 4 categories of ICECC, which are *Race Competition*, *Presentation Competition*, *Design & Concept Competition*, and *Video Profile Competition*, while the Reactics Rahwana and Reactics Sembrani with 8 members will take part in 2 categories of MCECC, which are *Race Competition* and *Presentation Competition*.

“The chance for grabbing the winner titles is always open, moreover in 2018 the Reactics Chem-E Car UGM won the second and fourth places in Surabaya and second in Malaysia. Besides, the team have done several simulations of competitions to get ready for the events,” said Rizky.

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