

# INPRES

## Industrial Process Reliability & Sustainability

Research group, Faculty of Chemical Engineering, Universiti Teknologi MARA (UiTM), Shah Alam, Malaysia. UiTM Entiti Kecemerlangan Tier 4, CoRe1/T4/2019(1)/FMIA(1).

### 01 WHO WE ARE

Seven chemical engineers, all registered Professional Engineers with the [Board of Engineers Malaysia](#); four are ASEAN Chartered Professional Engineers, and Prof. Zulkifli is a DOSH-registered [CIMAH](#) competent person. [UiTM](#) Centre of Excellence (Tier 4) since 2019. Head: [Assoc. Prof. Ir. Dr. Azil Bahari Alias](#), Dean of the [Faculty of Chemical Engineering](#).

### 02 SERVICES

- CIMAH safety reports; toxic, flammable and explosion assessments
- Quantitative risk assessment, consequence modelling, facility siting, inherent safety
- Hazardous area classification, including combustible dust
- Corrosion coupon analysis and interpretation; inhibitor efficiency testing; top-of-line corrosion studies
- Material qualification testing for transmission equipment
- Lab-scale process validation and optimisation, with mass balance and P&ID
- Wastewater, air pollution control and adsorbent development
- Biochar, activated carbon and waste-to-energy studies
- Industry training: CIMAH, quantitative risk assessment, pipeline corrosion in CO<sub>2</sub> and H<sub>2</sub>S, plant operator programmes

### 03 TRACK RECORD

## 138

industry projects, RM 10.9M

## 154

research grants, RM 11.3M

## 893

research outputs, 387 indexed

## 72

clients

## 82

postgraduates

### 04 SECTORS SERVED

Oil and gas terminals and refining · chemicals and chlor-alkali · rubber gloves · oleochemicals and biodiesel · semiconductors and electronics · power transmission · ports and bulk liquid storage

### 05 SELECTED CLIENTS

[PETRONAS Dagangan](#), [PETRONAS Research](#), [TNB Research](#), [Top Glove](#), [Clariant](#), [Hextar Kimia](#), [Rohrback Cosasco Systems UK](#), [Malay-Sino Chemical Industries](#), [Venator](#), [Toray](#) Plastics, [Infineon](#), [Sarawak Energy](#), [Sime Darby](#) Oils, [Westports](#), [SGS](#), [Emery Oleochemicals](#)

From UiTM Expert

### 06 PROFESSIONAL STANDING

- 7 x Professional Engineer, Board of Engineers Malaysia