

**G&P GEOTECHNICS SDN BHD**  
*(Formerly known as Gue & Partners Sdn Bhd)*  
**(Geotechnical Consultants)**

**SUMMARY REPORT FOR CONFERENCE/SEMINAR/COURSE**

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NAME OF CONFERENCE : Building Better Roads Seminar Series 5

VENUE : Banquet Room, Level 3, Vistana Kuala Lumpur

DATE : 14<sup>th</sup> November 2019      ATTENDED BY : LSS (one of speakers)

SPEAKER : Long Terms Challenges in Building Road Embankment on Weak Soil – Ir. Ismail of JKR

Problem and Solutions of Weak Soil in Engineering Application – Ir. Liew Shaw Shong (G&P Geotechnics S/B)

Nano Polymer Soil Stabilisation & Fiber Reinforced Concrete – En. Abdul Hamid Othman & En. Abdul Jalil Ahmad (AHN Vertex S/B)

Application of Soil Mixing in Infrastructure Development – Ir. Kowng Yan Wen (Keller Malaysia)

Treated Stone Columns with Cementitious Solutions – Dr. NASaruddin Bin Abdul Taha (UMS)

ORGANISER : YTL

**General comments (ideally not more than 20 lines) relevant to our work:  
(including a programme summary of topics and authors)**

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- a. Long Terms Challenges in Building Road Embankment on Weak Soil – Ir. Ismail (JKR)
  - Nine case history of failures
  
- b. Problem and Solutions of Weak Soil in Engineering Application – Ir. Liew Shaw Shong (G&P Geotechnics S/B) – PPT file in the Technical Publication (G&P)\2019 folder
  - Common problem of linear projects
  - Importance of desktop study in planning of SI work to avoid wastage and improve efficiency with minimal information, but maximal representation of subsurface for geotechnical design
  - Sharing of four forensic investigation failure cases
  - Stone column design for supporting reinforced soil wall
  
- c. Nano Polymer Soil Stabilisation & Fiber Reinforced Concrete – En. Abdul Hamid Othman & En. Abdul Jalil Ahmad (AHN Vertex S/B)
  - Interesting development of fiber reinforced concrete for slab on grade application with Germany technology
  - The super flat floor for robotic warehouse for Amazon
  - Different dosage of fiber (polypropylene) for different subgrade condition and loading intensity

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- The nano polymer is still in the laboratory testing stage, but promising results.
- d. Application of Soil Mixing in Infrastructure Development – Ir. Kowng Yan Wen (Keller Malaysia)
- Deep soil mixing method was presented
  - DSM for MRT station excavation method for overburden soil stabilisation to facilitate vertical excavation.
- e. Treated Stone Columns with Cementitious Solutions – Dr. Nazaruddin Bin Abdul Taha (UMS)
- Mostly presenting typical textbook design methodology for stone columns and laboratory results of cementitious treated stone columns.

**Recommendation for:**

**a) Colleague**

Fiber reinforced concrete can be used for slab on grade application and fast construction due to omission of reinforcement on ground that can hinder concreting logistic.

**b) Improvement to G&P's system or/and company operation**

<b>Training Effectiveness Assessment (<i>The Directors are exempted</i>)</b>	
Training Objectives: Just to contribute some case studies for sharing, not really for training purpose.	
<b>Evaluation:</b> <input type="checkbox"/> Excellence <input type="checkbox"/> Good <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Not Accepted	
Recommendation for Next Course of Action (If Any): As suggested and remarked above	
Assessed by: _____ ( )	Date: 19 November 2019