

# Bio-remediation of oil contaminated soil and sludge

This is the title of the Technical Talk to be held on May 25 at Jurong Country Club.

Mr Gregory Poi, an SLP member and a lecturer at Singapore Polytechnic School of Chemical and Life Sciences, will talk on his experience of successfully using bio-remediation as a means of decontaminating soil and sludge. His work with micro-organisms and conditioners has demonstrated that it is both technically and economically feasible to use bio-remediation, on an industrial scale, in Singapore. The technique he has developed can reduce oil/petroleum contaminated soil and sludge from a starting contaminant level of 50,000 ppm to less than 1000 ppm in nine weeks. This performance is a major improvement over other bio-remediation techniques that may take many months or even years to achieve the same degree of effectiveness. The cost is also very competitive when compared to costs of S\$ 250 to over S\$ 400 per ton for alternative technologies such as incineration and thermal desorption.

Mr Poi is also very knowledgeable about treatment of industrial waste water. He is prepared to discuss this subject both before and after the talk.

Members have already received announcements about this talk from our Secretariat. If they have not yet registered, they can still do so by e-mailing our Secretariat (Ms Lylia Law).

*An industrial sized biotreatment pit being filled. Note the mounds of contaminated material in the pit. The capacity of the pit is 250 m tons.*



*Layout of the containers for the pilot study*