



SAI Invited to Present State-of-the-Art Solid Waste Technologies to Chinese Officials

In response to an invitation from the City of Punyu, China, SAI's Senior Vice President Joseph Wiley gave a presentation on March 10, 2010, to a group of 50 solid waste officials and staff, as well as local TV reporters, in Punyu, a district of the greater City of Guangzhou (formerly Canton), China. Guangzhou and Punyu are rapidly growing with a total population over 10 million. While Guangzhou has some incinerators, Punyu (population 2.5 million) has one small landfill with little remaining capacity. The City funded Mr. Wiley's trip as an initial step toward the provision of adequate and modern solid waste disposal systems that will meet the needs of Punyu's expanding population.



Dr. David Chow (left) assists Joe Wiley (center) in explaining a thermal treatment system to the Deputy Environmental Commissioner (center right) prior to the formal presentation.

Dr. Fahim, V.P.

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her well-earned promotion. We look forward to working with her in her new capacity as Vice President.

LSRP Corner at SAI

SAI is proud to have on staff two of the first Licensed Site Remediation Professionals (LSRPs) in the state of New Jersey. They are charting new territory for both the company and the State by being among the first professionals empowered by the state to remediate contaminated sites and issue a Response Action Outcome (RAO) without NJDEP oversight.

Rodger Ferguson, CHMM, has to date signed off on three separate RAOs for two different projects, and has been named as the LRSP of record for another challenging site. He has been actively working with the NJDEP stakeholder committees for the May 2011 proposed revisions to the Technical Requirements for Site Remediation and development-related guidance documents for LSRPs to be created as part of NJDEP's reforms.

For more detailed information on the continuing evolution of the LRSP process, please contact Rodger at (609) 826-9600.

Mr. Wiley began his presentation by highlighting the similarities between New Jersey's solid waste crisis of the mid-1980s and the current situation in Punyu and many other urban areas in China. (SAI prepared a Solid Waste Master Plan for the City of Shanghai, China – population over 12 million – a few years ago). The presentation also covered SAI personnel's prior experience as regulators, successfully managing New Jersey's solid waste crisis and establishing state-of-the-art requirements for new incinerators, landfills and transfer stations. Mr. Wiley discussed several cutting edge waste disposal technologies, including thermal approaches such as mass burn waste-to-energy with advanced air pollution controls, and Thermoselect (a European technology that uses pyrolysis to extract usable fuel gas and products such as sulphur, zinc and other materials, and vitrifies the refractory materials in the waste). Another new technology, originated in China and being introduced to the US by a New Jersey-based firm, was also presented. This new technology, called the WST process, uses mechanical separation to recover paper, plastic, wood, metal and refractory materials, followed by a wet process for cleansing the organic fraction of metals. Sludge from the wet process is anaerobically digested to produce biogas then dried to produce organic fertilizer. Plastic is pyrolyzed to produce diesel fuel.

Mr. Wiley compared the capital and operating costs of the technologies and discussed advantages and dis-

advantages of each. He recommended that a Master Plan be prepared to address all aspects of solid waste management, ranging from collection to siting, as well as establishment of state-of-the-art performance standards. The Master Plan would provide recommendations in selected technologies and projects, plus an Implementation Plan to address financing and cost recovery. The presentation also included a brief presentation of landfill redevelopment opportunities. Dr. David Chow, a US medical doctor who frequently visits Guangzhou, coordinated the invitation and translated for Mr. Wiley. An animated question and answer period ensued.

It was clear that Punyu, like New Jersey many years ago, is in the midst of a solid waste crisis. SAI has substantial expertise due to senior staff who were formerly environmental officials, and to its many successful international consulting assignments that assisted major cities including Shanghai, Mexico City, Bogota, Columbia, Rabat, Morocco and many others. SAI hopes to lend this expertise to Punyu and surrounding areas to deal with this solid waste crisis quickly and effectively.