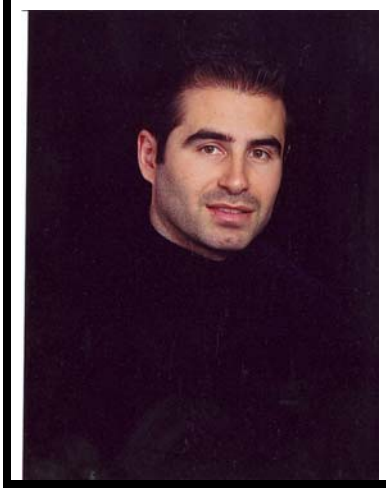
# MORE Science at UTSA
# Environment Science and Engineering
# Spring 2007 Seminar Series

**Where:** **Loeffler room (3.03.02) in the BioScience Building**
**When:** **4:00 PM – 5:00 PM on February 2, 2007**

## Snack and drinks will be served

Speaker: Dr. Konstantinos Makris



Dr. Konstantinos Makris is currently a Research Assistant Professor in the EES Dept. He received his BS in Forestry from Aristotle University in Thessaloniki, Greece. He received his MS in Plant and Soil Science from Univ. of Kentucky, and his PhD in Environmental Soil Chemistry from the Univ. of Florida in 2004. Dr. Makris' research interests are surface Colloid chemistry of soils and waste materials, Beneficial Reuse of industrial and agricultural waste materials and contaminant fate and transport in contaminated soils and waters

Topic: **Soil and Water Chemistry Paradigms in Environmental Science**

Surface water quality in several U.S. States is impaired due to anthropogenic inputs of excess amounts of phosphorus (P) and arsenic (As) present in animal waste and other fertilizers applied to agricultural fields. Surface runoff and leaching processes enhance P and As mobility finding their way to downstream water bodies or to ground water. This seminar will discuss the effectiveness of low-cost P management practices that reduce As and P solubility in water and soils, thus, decrease the probability of contaminating the groundwater. Low-cost chemical amendments may immobilize P and As, but the long-term stability of sorbed contaminant by the amendment may be hard to quantify due to time constraints.