

Georgia Local Section, AIHA
Summer Seminar, July 2002
Gas and Vapor Detection



Date: July 19, 2002 (Friday); 10:00 a.m. - 2:30 p.m.

Location: Mirant Corporation
 1155 Perimeter Center West
 Atlanta, Georgia (next to Sandy Springs MARTA Station)
 See reverse for map and directions **Note: please park on upper level of parking deck**

Cost: PRE-REGISTRATION: Received by 7/12/02: ----- \$ 25.00 (members) \$35.00 (non-members)
 ON-SITE REGISTRATION: At the door: ----- \$ 30.00 (members) \$40.00 (non-members)
GUEST COUPON: Non-member guests of GLS Members --- \$20.00 (with coupon from newsletter)
 (Costs includes lunch and refreshments)

TO REGISTER: Please make your check payable to *Georgia Local Section, AIHA* and mail to:

Ryan Langton E-mail: ryan.langton@gtri.gatech.edu
 Treasurer, Georgia Local Section, AIHA
 Georgia Tech Research Institute
 151 6th Street, Okeefe Building
 Atlanta, Ga 30332-0837 Telephone: 404-894-2644

E-mail pre registration is allowed but you are obligated to pay your registration fee even if you later decide you can't attend

**.Presented by: Martin Harper, PhD CIH, Assistant Professor,
 University of Alabama, Birmingham**

Sampling for Gases and Vapors (2.5 hours)	IH Laboratory quality assurance, proficiency testing and accreditation (1.5 hours)
<ul style="list-style-type: none"> • Method requirements • Pumps for active sampling • Adsorptive sampling: solvent desorption <ul style="list-style-type: none"> • Desorption efficiency • Sample capacity (breakthrough) • Storage stability • Effect of humidity on desorption efficiency, capacity and storage • Sorbents: charcoal, Anasorb 747, silica gel, polymers • Adsorptive sampling: thermal desorption <ul style="list-style-type: none"> • Theory • Advantages and disadvantages • Sorbents: polymers, graphitized carbon blacks, carbon molecular sieves • Whole air sampling: <ul style="list-style-type: none"> • Tedlar bags • SUMMA / SilicoSteel canisters • Active vs diffusive/passive sampling • On-site methods of colorimetric sampling • Detector tubes <ul style="list-style-type: none"> • Chemically treated sorbents for reactive gases • Sampling semi-volatile compounds, pesticides 	<ul style="list-style-type: none"> • Laboratory analytical methods overview • Good practices for quality assurance • AIHA Laboratory quality programs • ISO 17025 and laboratory accreditation • Accreditation requirements • Accreditation procedure • Proficiency testing (AIHA) • Proficiency testing (Europe) • AIHA/Europe cooperation • Developments in QA procedures: • Silica • Fiber counting

Dr Harper was once Chair of the AIHA's Gas and Vapor Detection Systems Committee and a member of their Sampling and Laboratory Analysis Committee. He served 3 years with the AIHA's Industrial Hygiene Laboratory Accreditation Committee and 3 years on the Analytical Accreditation Board. Dr. Harper was also Chair of the proficiency test committee of the National Conference on Laboratory Accreditation (NACLA). He is the current Secretary of ASTM D22.04 Committee on Sampling and Analysis of Workplace Atmospheres and Chair of ISO Technical Committee 146 (Air Quality), subcommittee 2 (Workplace Atmospheres).