

**5 November 2001**  
**Session 1, 8:30 a.m.**

Vendor Workshop  
**Productivity Advances in Laboratory Sample Counting**

Presented By  
**Canberra Industries, Inc.**  
**A Cogema Company**

Technologies that enhance lab productivity, measurement accuracy and result defensibility continue to emerge. This workshop summarizes some of the technologies available from Canberra that help you operate your lab to the highest standards and at greatest efficiency – and provides a sneak preview of a key forthcoming offering. More information on these will be available at the Canberra booth and on the web-site at [www.canberra.com](http://www.canberra.com).

- 1) **Sample Management Software (SMS)**  
Do you count air filter samples, swipe samples or lapel samples on a routine basis? If you do, you know that collecting, analyzing and reporting on large numbers of samples while maintaining an ironclad chain-of-custody can be an information management nightmare. Using patented processes<sup>1</sup>, SMS gives you comprehensive sample management and tracking from the sample collection point right through to the final report.
- 2) **Frisch Grid**  
How many times have you performed costly separation chemistry on a sample only to discover after counting that the method failed due to interference in the sample? Costs rise, turn-around time stretches and your customers become impatient. Use a Frisch Grid chamber as a quick screening tool and virtually eliminate this type of problem in your laboratory.
- 3) **Coincidence Summing Correction**  
Coincidence Summing problems have plagued gamma spectroscopists for years. Until now, your choice has been to live with the errors, perform manual, off-line corrections or spend time and money on difficult calibrations. Canberra's patented<sup>2</sup> method provides accurate results without expensive special sources or time consuming setup.
- 4) **LABoratory SOurceless Calibration Software (LABSOCS)**  
Using mathematical modeling techniques<sup>3</sup> to perform efficiency calibrations helps cut calibration costs – in labor as well as source inventory and disposal. Additionally, the methods can help you evaluate and optimize container and counting geometry, respond to new situations faster and reduce calibration errors from coincidence summing and matrix discrepancies.
- 5) **Apex Lab Productivity Suite**  
Finally, a glimpse at the future. Canberra's Apex Suite will revolutionize how you operate in your laboratory. Based on a leading edge client/server database model, Apex extends your production gamma spec operation by incorporating many of the functions you perform off-line or manually. Built in collaboration with leading counting labs around the world, Apex incorporates sample log-in, counting, data review, security, event logging, extensive QA, and a few surprises - in one seamless application suite. Check it out!

6) U.S. Patent 5,468,968

7) U.S. Patent 6,225,634

**U.S. Patent 6,228,664**