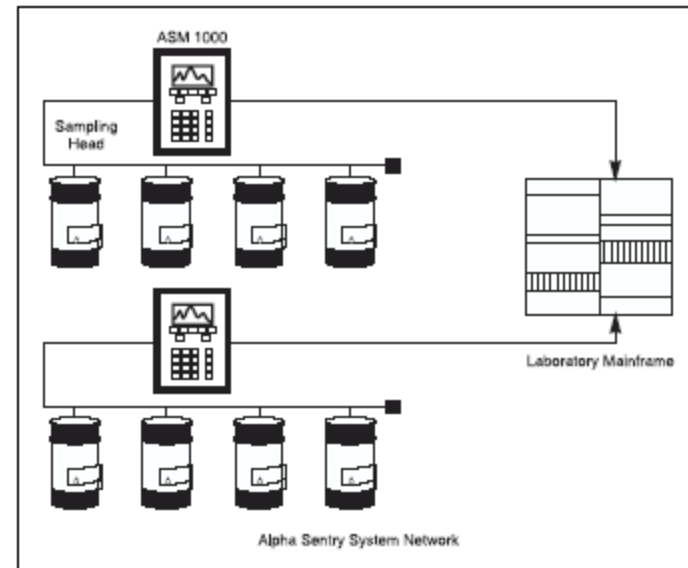


A stylized, bold, red letter 'A' logo. The letter is composed of thick strokes, with a slight curve on the right side of the vertical stem. It is positioned in the upper left quadrant of the page.

CANBERRA

Alpha Sentry CAM

- ▶ **Multi-head Alpha in air monitor**
 - ◆ **Up to 8 heads per control unit**
 - ◆ **CAM450 or CAM1700 detectors**
 - ◆ **Quick change filter cartridge**
 - ◆ **Patented radon reduction screen**
 - ◆ **Radial air entry**
- ▶ **256 channel MCA**
 - ◆ **Acute alarm processing in head**
 - ◆ **Chronic alarm processing in ASM1000**
- ▶ **Radon stripping by simple exponential model of tail**
- ▶ **Contiguous spectrum collection**



i CAM - The intelligent CAM

- ▶ **Simultaneous alpha & beta air monitor**
 - ◆ **Integrated unit**
 - ◆ **450 mm² detector**
 - ◆ **Card mounted filter or moving filter mechanisms**
 - ◆ **256 channel MCA & beta counting scalers**
 - ◆ **Optional gamma dose rate monitoring**
- ▶ **Radon tail stripping via non-linear least squares fit**
 - ◆ **2 x chronic measurements simultaneously, plus 15 s acute alarm**
 - ◆ **Spectra are rolling averages w 15 s update**



- ▶ **Moving Filter for ambient sampling or via pipe or hose**
 - ◆ **From duct or through wall/cabinets**
 - ◆ **Identical sampling/deposition to iCAM/D**
- ▶ **Low Leakage < 25 cc/min typ.**
- ▶ **~ 12 months autonomy @ 1 filter change per day**
- ▶ **Wide range of filter change parameters:**
 - ◆ **Fixed time**
 - ◆ **Fixed volume**
 - ◆ **Low flow**
 - ◆ **High pressure**
 - ◆ **High activity**
 - ◆ **High background**



- ▶ **Sampling head separated from controller**
 - ◆ **Up 10 m separation**
 - ◆ **For remote sampling of high activity levels**
 - ◆ **High Integrity, v well sealed, vv low leakage: < 10 cc/min**
 - ◆ **Filter roll in a cassette for rapid change-over**



iCAM/MFS: High integrity Stack Monitor

▶ Completely New Sampling Head

- ◆ Up to 10 m from head to controller**
- ◆ For high activity sampling**
- ◆ High Integrity design - Vacuum sealed**
- ◆ High sampling efficiency**
 - Low losses & low internal contamination**
- ◆ Removeable cassette for the filter roll**
 - Avoids handling highly active filter**
 - Filter change can be done outside active area**
- ◆ Ideal for fixed pipework**
 - No hinging of the head required to change the filter or for calibration**
- ◆ Tested with active aerosols (^{239}Pu & ^{137}Cs)**
 - CTHIR certification to IEC61172, 60761-2 & 2 and 61578**

Alpha Sentry Variants: NetCAM

- ▶ **AS Head with CodeTalker processor**
 - ◆ **Provides WebServer interface**
 - ◆ **RadNet/Ethernet output**
 - **Wireless option**
 - **optional FIPS140-2 compliant encryption and authentication**
 - **Optional data output format for compatibility with the LLNL HOTSPOT plume modelling code**
- ▶ **CodeTalker runs LANL derived algorithms**
- ▶ **Full peak fitting**
 - **Combined gaussian plus LSq exponential & error correction**
- ▶ **Peak fitting in U/Pu/Am region to resolve isotopes**



AS Variants: ECAM

- ▶ **Combined Outdoor Alpha & Beta CAM**
 - ◆ *NetCAM in box with 2 cfm pump*
- ▶ **Unique “cyclo-shroud” inlet**
 - ◆ *removes large particles (>20 μm AMAD)*
- ▶ **2048-channel DSP MCA for Alpha and Beta spectroscopy**
 - ◆ *Compensation for temperature and altitude*
- ▶ **RadNet compliant wireless communications**

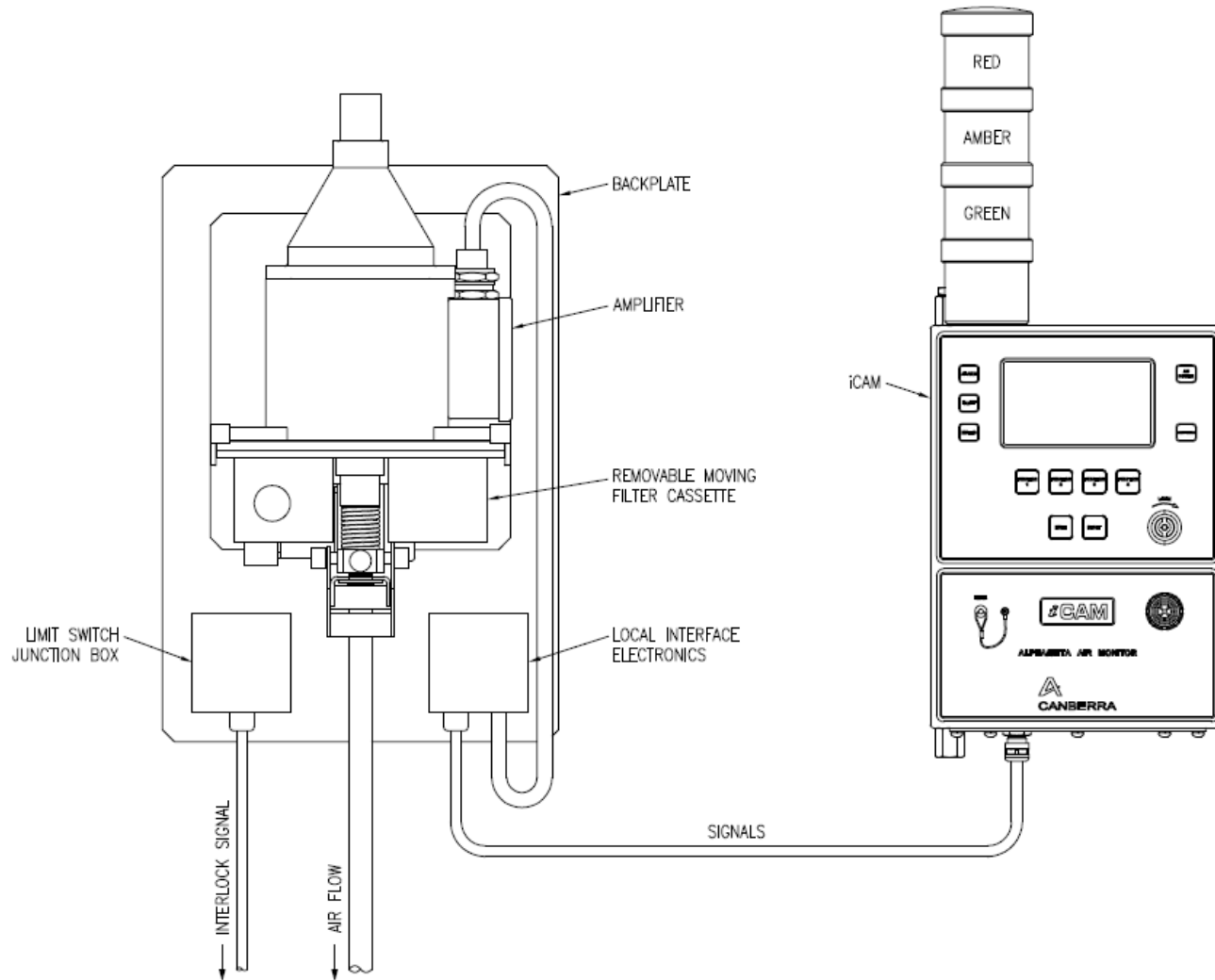


iCAM/RH: Long Distance Remote Head

- ▶ ***Allows sampling up to 100m from the iCAM control unit***
 - ***Head contains amplifiers, flow & pressure measurement***
 - ◆ ***So no pipe required back to control unit***
 - ***2 x coax cables & 1 serial data cable to iCAM CU***
- ▶ ***Any sampling head can be used***
 - ◆ ***Fixed filter, MF or MFS***
 - ***Can be used in any orientation***
 - ***MFS version still in development***
- ▶ ***No manual adjustments in head***
 - ◆ ***All calibration adjustments made at the iCAM CU***



MFS version





2009
USERS' GROUP MEETING
NEVADA
June 15-19

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Loews Lake Las Vegas Resort Henderson, Nevada

CANBERRA's Annual Users' Group Meeting provides a professional forum where CANBERRA users and CANBERRA personnel exchange valuable information on products, services and applications. There are three main components to the meeting: Education Seminars (offered at a discounted rate), General Sessions and Breakout Sessions (both free of charge). We also find ways to have some fun!

WHO SHOULD ATTEND

The meeting is open to all users and prospective users of CANBERRA products and services.

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Approved Paper Presentations

"GPSOM and Perimeter Monitoring Application that was set up in the City of Charlotte, NC"

Michael Tobin, Charlie Mecklenburg
Emergency Management

"Utilization of CANBERRA Systems in Providing Ground Truth for the Characterization of the Intelligent Personal Radiation Locator (IPRL)"

Carl "Jake" Jacobs,
Savannah River Site

"FPS in Space"

Christina Hammeck,
John Hopkins University

"Using Fallout-Derived Short-Lived Isotopes To Quantify Sediment Transport Mechanisms & Rates"

Jean Dixon, School of Earth & Space
Exploration, Arizona State University

"Transitioning From CANBERRA VMS VAX (PRO COUNT) To APEX Counting System"

Willey Payton, Progress Energy

"Gaseous Resson Product Detection System in CANDU Plants"

Ujjal Mondal, CANDU Owner's Group

"Use Of ARGOS And GEM in High-Background Environment"

Seward Morris,
Brunswick Nuclear Plant

Keynote
Speaker



Dr. Patrick Moore

Chair & Chief Scientist of Greenspirit Strategies, founder & former President of Greenpeace

A leader of the International environmental movement for more than 30 years, Dr. Moore reveals the myths and misinformation that distort current environmental debates. He calls for issues to be discussed on the basis of accurate scientific data, a search for consensus and the creation of sustainable solutions.

Distinguished
Speaker



Tom Christopher

Former President and CEO of AREVA NP, Inc.

In his 35+ years in the Nuclear Industry, Tom Christopher has seen the industry go through many changes and challenges. He has been instrumental in creating over 1,000 new engineering jobs in the past three years and in building the largest nuclear worker training facility in North America. Tom will discuss how he has driven AREVA NP through its own transformations.

Users' Group Meeting Schedule:

Educational Training Seminars

> June 15 & 16
(\$500 per day)

General Sessions Presentations

> June 17 & 18 - AM
(complimentary)

Breakout Sessions

> June 17 & 18 - PM
(complimentary)

Demo Room

> June 17 & 19
(complimentary)

Questions?

Contact us by e-mail at: events@canberra.com
or by phone at 203-639-2148.

For up-to-date info please visit: www.canberra.com/events