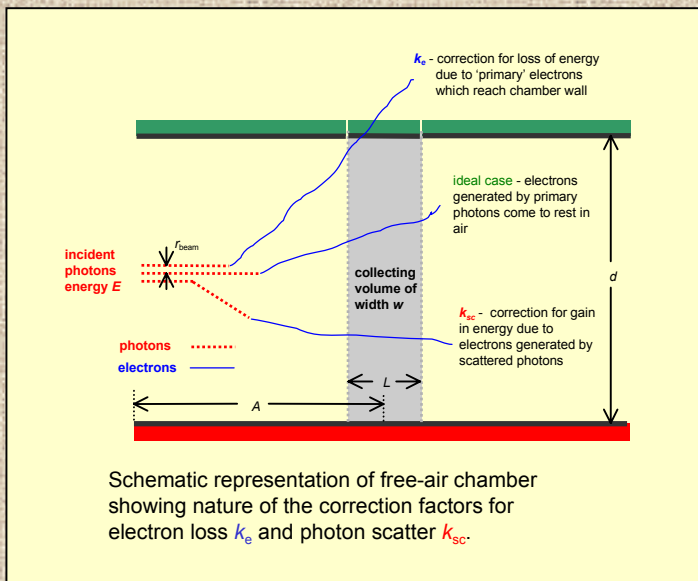


Dosimetry of x rays

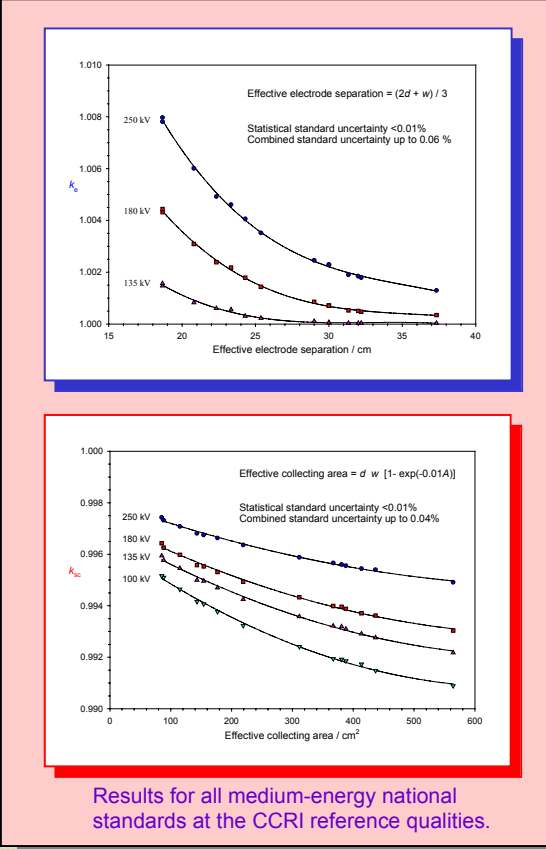
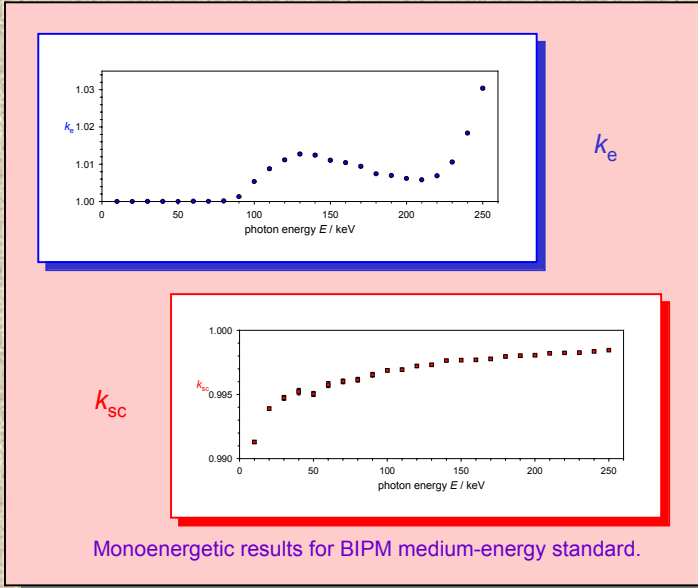
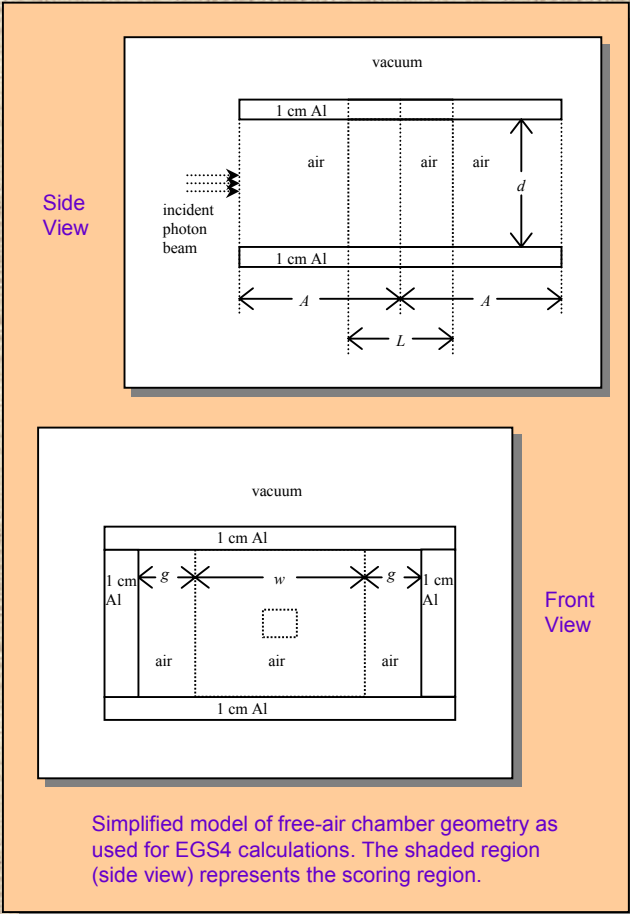
Monte Carlo calculation of correction factors for free-air ionization chamber standards



Monte Carlo Code: EGS4 (Nelson, Hirayama, Rogers, 1985) with PRESTA algorithm (Bielajew, Rogers, 1987)

User code: SCATXYZ - modified version of user code DOSXYZ (as supplied with EGS4)

Electron transport parameters:
 ESTEPE = 20%, ECUT = 512 keV, PCUT = 1 keV
 10^7 histories at each photon energy



National standards simulated:

Low-energy qualities: ARPANSA, CIEMAT, ENEA, NMIJ, GUM, NIST, NMi, NPL, NRC, METAS, OMH, PTB, VNIIM

Medium-energy qualities: ARPANSA, BEV, BNM, CSIR, GUM, NIST, NMi, NPL, NRC, OMH, VNIIM