PAUL SCHERRER INSTITUT

PSI

GFA & SwissFEL Accelerator Seminar

Educating and Training Accelerator Scientists and Technologists for Tomorrow

Monday, 18 February 2013, 16.00 h, WBGB/019

Prof. William Barletta, MIT

Accelerator science and technology is inherently an integrative discipline that combines aspects of physics, computational science, electrical and mechanical engineering. As few universities offer full academic programs, the education of accelerator physicists and engineers for the future has primarily relied on a combination of on-the-job training supplemented with intense courses at regional accelerator schools. This paper describes the approaches being used to satisfy the educational interests of a growing number of interested physicists and engineers with emphasis on the approach taken by the US Particle Accelerator School. USPAS sessions are held twice annually, hosted by major US research universities that approve course credit, certify the USPAS faculty, and grant course credit. The USPAS paradigm is readily extensible to other rapidly developing, cross-disciplinary research areas such as high energy density physics.

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