

Biographical Summary

Bruce Carlsten is an accelerator physicist at the Los Alamos National Laboratory. His main research interests are the generation and manipulation of high-brightness electron beams, development of high-frequencies RF sources, and X-ray free electron laser theory and technology. He was a pioneer in the development of RF photoinjectors and is credited with the discovery of the emittance compensation technique which has allowed photoinjectors to generate exceptionally bright electron beams. He was also a pioneer in the development of electron-bunch compressors, including early research in the effects of coherent synchrotron radiation. He is a Fellow of the IEEE, the American Physical Society, and the Los Alamos National Laboratory. He is also a Member-at-Large of the Executive Committee of the IEEE Plasma Sciences and Applications Technical Committee and is on the Editorial Board of *Physical Review Accelerators and Beams*.