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During a recent Medical Physics Workshop convened at the request of the Radiation Research Program, Division of Cancer Treatment and Diagnosis, NCI, potential directions for future research were identified. One such area is X-band technology. The consensus finding was that the next generation of high-energy linear accelerator will be based on X-band technology. In principle, a new generation of linear accelerators should become available that are roughly one-third as large as current systems. To discuss the current status, future capabilities, and limitations of this technology is Dr. Russell Schonberg. Dr. Schonberg is the pioneer in taking this technology to the clinical world.