The first Roentgenogram sparked a revolution in the practice of modern medicine. Today, the imaging tools available for diagnostics and therapy have expanded well beyond their fundamental foundations, evolving into intricate and powerful medical instruments designed to address the many facets of managing disease. As our knowledge of biology, physiology, and pathology deepens, the development and mastery of such complex technology becomes more challenging. With the worlds of scientific research and clinical practice at times widely divided, increased collaboration is required to combine inventors’ skills and users’ experiences to harness the breathe of capabilities necessary to translate lab bench theory into life-saving medicine.