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The Evolution of Detectors used for Protein Crystallography - A Personal Overview. Ronald C. Hamlin, Area Detector Systems Corporation, 12550 Stowe Dr., Poway, CA 92065.

Dramatic improvements in the X-ray detectors used for protein crystallography have taken place in the past 35 years. From the single point counters used on the first diffractometers to the development of the early gas-filled area detectors to the large, nearly full-coverage area detectors in use today, the accuracy, efficiency and convenience of these X-ray detectors continue to improve. The author will recount some of his personal experiences involving detector development (particularly in the laboratory of Professor Xuong). The author will then make some predictions about the protein crystallography detectors that are coming in the near future (further-improved CCD detectors) and in the farther-but-foreseeable future (the Pixel Array Detectors).