





Camilla Deragon is pictured in 1967 with FOSDIC - Film Optical Sensing Device for Input to Computers. FOSDIC was designed at the National Bureau of Standards and converted data on microfilmed punch cards into binary code for input to computers. The data was recorded on magnetic tape, shown on the left. The center racks held memory and logic circuits, and data selection was performed using the plugboard on the right. The Weather and Census bureaus were the primary users of FOSDIC.

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An unidentified member of the National Bureau of Standards Mass Spectrometry Division in 1948. She is shown using a mass spectrometer for the analysis of gases. The mass spectrometer ionized gas at extremely low pressure and measured the mass of the resulting ions. Molecules were identified by their molecular weight and by the molecular weights of their dissociation products.

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