

also for his role in the development of heavy ion technology. I used to work with him one day (and one night) a week to try and accelerate various heavy ions to usable energies and intensities. One of our important findings was the discovery of harmonic acceleration by which C^{2+} and C^{6+} could be accelerated simultaneously. We even developed a beryllium beam at that time! This heavy ion work led directly to the building of the HILAC. Rossi played a very crucial role.

The target problems were considerable but they were overcome. The trouble was that we didn't see anything--no short-lived alpha particles that could be identified as originating from element 101. The reason for the fast little car seen in the film (my supercharged Volkswagen) is that we were sold on the idea that the new hypothetical alpha activity would have a half life of about five minutes so that it was necessary to cut the time from the end of each bombardment until the end of chemical separations to an absolute minimum. We used to telephone the guard at the Laboratory gate that we were coming so that there would be no delay in making entry. I remember one time, however, when someone didn't phone. As usual, as the driver, I raced through the gate going like mad. This particular guard, who was a real eager beaver, jumped out of his post and shouted, "Stop or I'll shoot!" Well, believe me, I wasn't about to stop--I thought he just might shoot! He was very much distressed; he came up to our lab afterwards and we apologized but said that we were too busy with the experiment to talk about the incident at the moment. We got away with it for a while.

As the experiments proceeded we became discouraged because we couldn't find anything after using several days of bombardments. One night after our usual failures we decided to look for something longer lived. We made a some-