The company who is organizing the meeting today is one of the leaders in terms of innovative processes for product Titanium. Other details on that can be found in the book that I mentioned earlier. One process which we, at the United State Alfforce, have been interested in, is the Albany-Titanium process (fig. 12).

It is a process in which Clusorisation is followed by a reduction in a Zinc-bath by Aluminum, and finally a distillation step to produce a Titanium powder, or sponge, or even an alloy powder which does not contain the remant Zodium or Magnesium salts that the Kroll or Bunter process do. It is still an experimental process, and only small amounts of material have been reduced at this point.

Melling of Titonium is an area where a lot of work has been done in the last few years particularly because of the concern with defects, in particular the socialed Type-1 defect which is an apha-entallized defect [seriolarly stealingtation with the elements Oxygen and Hitropen) (fig. 15), Because of this, there has been a lot of attention paid to other techniques beyond the commands electro-techniques including those shown in fig. 16 particularly Electron-beam and plasma-techniques atthough it of Titanium will be more expensive than with the Vecum Area (Fig. 15). The property of Titanium will be more expensive than with the Vecum Area (Fig. 15) and the property of the property

There have been other techniques investigated such as findacticals sight techniques developed at the Bureau of Hines in Albary, Oregon, and more recently consercialized by the Duriron Company in Dayton, ohio. This technique probably passes applicable to small castings rather than the production of Ingots.

I will not cover welding or corrosion today but as I said those are also covered in the book that I mentioned earlier and which is available from the Titanium Development Association.