***Periodic Table is Predictive:***

* Elements in Periodic Table means the number of Protons in each Atom of an Element.
* Let people to expect existed Element before anyone had found it or made it.

***Element 43 -> between Element 42 and Element 44***

* A team of Chemists called Ida Tack were using a relatively new technology called X-ray spectroscopy, and they were using this to exam an ore sample.
  + X-ray spectroscopy was a new method, and they were never able to isolate enough Masurium to have a weigh-able sample to convince everyone of the Discovery. Discredited.
* After 12 years later, a different team became the first to synthesize the element using a cyclotron.
  + The Element is called Technetium, which was artificially created with technology.
  + People think that this is the only way to synthesize the Element, since only make it artificially was the only way to get it. -> Since the property of Radioactive Decay, so Element 43 can not last long.
* Ida Tack can not successfully prove their own development, also can not publish enough clues to make people believe their own discoveries.

***Conclusion:***

* *As Masurium, it was the first Element to discover that occurs in nature only from spontaneous Fission.*
* *As Technetium, it was the first Element that was discovered in the Laboratory.*

***Words:***

|  |  |
| --- | --- |
| *Protons* | ***质子*** |
| *Atom* | ***原子*** |
| *Gaps* | ***缺口*** |
| *Symbol* | ***象征*** |
| *Spectroscopy* | ***光谱*** |
| *Discredited* | ***失信*** |
| *Synthesize* | ***合成*** |
| *Cyclotron* | ***回旋加速器*** |
| *Decay* | ***衰退*** |
| *Turns into* | ***转换为*** |
| *Spontaneously* | ***自发的*** |
| *Uranium* | ***铀*** |
| *Incredible irony* | ***讽刺的*** |
| *Defense* | ***防卫*** |
| *Fission* | ***分裂*** |
| *Laboratory* | ***实验室*** |