

**Transcript of Iwamura Rebuttal to Kidwell  
ICCF-15, Rome  
Tuesday, Oct. 6, 2009**

**Session Chairman Mahadeva Srinivsan:**

Iwamura and I would recommend to Vittorio [Violante] that when these papers are published in the proceedings, it would be nice, perhaps, to have Dr. Iwamura's [inaudible] because it's a very interesting [inaudible].

**Yasuhiro Iwamura SLIDE 1**

Okay, I will make comments on David and Ken's presentation. But first I would like to say MHI [Mitsubishi Heavy Industries] extraction by MHI but in front of NRL [Naval Research Laboratory] members. You [NRL] videotaped our extraction.

They discovered that Pr contamination at the balance of our experimental room and balance and we make a Pd complex film like this and after washing the pd sample with acetone and annealing, and after that we measure the mass on the, mass using the balance, and washing the sample with aqua regia, and after that we use the balance about for 10 seconds.

This is the contamination chance for our sample and after that we fabricate this film.

**Iwamura: (SLIDE 2)**

As, in the permeations, we have many backgrounds. For foreground experiments we have positive pr. But if we have only cesium and no permeation, we never get pr. And also, only permeation without cesium, we have no pr for six cases.

**Iwamura: (SLIDE 3)**

This is for Chamber 1, and for Chamber 2, the other channel we use for Channel 2, we performed seven experiments but we never get pr.

So I can't understand that why, if pr originated from the balance contamination, then pr should have been detected every time. But the many, many background samples, we did not get pr. Also, this is seven samples. Why, we could not detect pr [inaudible] from permeated samples if pr originated from the balance contamination? These samples are permeated samples, okay?

**Iwamura: (SLIDE 4)**

And next point, pr distribution, depth distribution, as I said, possible pr contamination around here. But this is the pr on surface distribution depth profile. We only see the pr here.

Now why did we, cannot see any pr in deeper region if Pr would migrate easily by deuterium permeation?

**Iwamura: (SLIDE 5)**

And also, we have in-situ experiment at Spring-8 so, and the other [inaudible] is localized Pr, and as I said, we observed localized pr, Why this Pr did not migrate or diffuse, if Pr would migrate easily by deuterium permeation?

**Iwamura: (SLIDE 6)**

And also, this is another experiment, presented at ICCF-11, before they come, NRL, to our laboratory, we did not see any pr. So in this case we have valid transmutation experiment and we have samarium. So that's my comment.

**Srinivsan:**

Thank you very much, I'm afraid we've run out of time. Very interesting, both the last two papers, they're very important to the field. I really encourage Vittorio if he can find some time on Thursday - it would be nice to continue the discussion.