

2012 Scientific Advisory Committee Meeting
Anthony's at Columbia Point, Richland, WA
September 7 - 8, 2012

USTUR Statistics & Registrant Correspondence



Stacey L. McComish, *M.S.*
Associate in Research
College of Pharmacy, Washington State
University

smccord@tricity.wsu.edu

*“Learning from Plutonium
and Uranium Workers”*

Number of Registrants

As of September 6, 2012

Total Living and Deceased Registrants: 414

Living Registrants: 78

Partial-body Donations: 59

Whole-body Donations: 12

Special Studies: 7

Deceased Registrants: 336

Partial-body Donations: 292

Whole-body Donations: 39

Special Studies: 5



How Are These Numbers Changing?

Since the last Annual Meeting...

Living

Net: -4

PB: -3

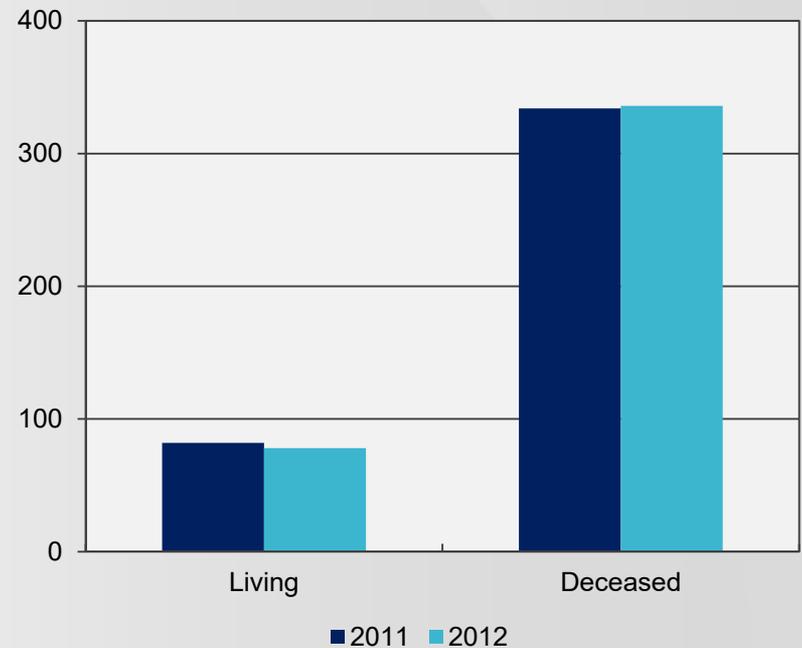
WB: -1

Deceased

Net: +2

PB: +1

WB: +1



Inactive Registrants: +3



In the Past 14 Months...

- 1 New Registrant
- 1 Inactive Registrant Re-registered
- 2 Registrant Deaths
- 4 Registrants became Inactive



New Registrant

Case 0802 - Whole Body

- Worked with Pu.
- This individual initially contacted DOE in March of 2011.
- He was a USTR registrant before the program moved to WSU.
- However, we had no record of him.



“Reactivated” Registrant

Case 0587 - Partial Body

- Called to verify that his contact information was correct. He also wanted us to know that he had been diagnosed with a skin cancer.
- His address was correct. However, the file had been inactive since 1995 because renewal paperwork was not returned.
- After reviewing the file, accepted him as a partial body donor.

Cm-244



“Reactivated” Registrant

- Intake:
 - ✓ 0.035 μCi (1.3 kBq) Cm-244 oxide.
- Worked as a lab tech, where he prepared metallography samples for the uranium that went into the reactors.



Registrant Death

Case 0631 - Whole Body

- Worked with nitrates in a hood; used respirator, gloves, etc.
- Consistently high nose counts
 - 80 nose counts during a 1-year period
 - Average: 42 cpm
 - Maximum: 415 cpm
- Inhalation
 - ✓ 61 nCi (2.3 kBq) ^{239}Pu Nitrate according to a work site internal dose report.



Registrant Death

Case 0631 - Whole Body

- Urinalyses
 - ✓ 8 for Pu-239
- A participant in a follow-up program.
 - ✓ Results from urinalyses are not in the file, but should be obtainable.
- Appears to be a good case for Chris Nielsen's PhD research.



Registrant Death

Case 0636 - Partial Body

- Two Inhalations:
 - ✓ 8-9 pCi (0.3 Bq) ^{239}Pu , Type S
 - ✓ ~7 pCi (0.3 Bq) ^{238}Pu , Type M
- Health Physics:
 - ✓ 116 urinalyses for plutonium
 - ✓ 17 were above the MDA



Inactive Registrants

Four living Registrants changed to Inactive.

- Registrant REQUESTED to withdraw from the USTUR:
 - ✓ 0258 (Partial Body)
- Registrant did not return RENEWAL PAPERWORK:
 - ✓ 0263 (Whole Body)
 - ✓ 0399 (Partial Body)
 - ✓ 0433 (Whole Body)
- FedEx was used to send second notice of renewal.



Registrant Renewals in FY2012-13

- 2 Renewed successfully
 - ✓ Whole Body (0674)
 - ✓ Partial Body (0327)
- 16 Renewal Packets will be sent during the remainder of FY2013.
 - ✓ 4 Whole Body
 - ✓ 12 Partial Body



in this photo >>>

Front: David McLain (WSU Nursing student/part-time USTUR), Sergei Tolmachev, Stacey McCord. Back: Chris Nielsen (PNNL), Margo Parker, Fred Miller, Florencio Martinez (part-time USTUR), Lorena Parra. Not Pictured: Shannon Bedell (Central Washington University student/part-time USTUR).



in this issue >>>

Page 1

◇ Direct from the Director

Page 2

◇ WSU Student Studies
Microdistribution in Lungs
◇ New Faces at the USTUR

Page 3

◇ The European Radiation Dosimetry Group (EURADOS)
◇ With Great Sadness...
◇ Advisory Committee Member Retires

Page 4

◇ Did You Know?
◇ Website

Direct from the Director

Greetings from Richland! I am pleased to report that the USTUR received no new budget cuts during 2011 and anticipates none for 2012. Although our budget remains tight, we will continue to move forward, making the most of the funding that we have been granted. We are excited to welcome our newly-hired health physicist, Maia Avtandilashvili, and we anticipate hiring a laboratory technician within the next few weeks. In addition, I am pleased to announce that the USTUR Radiochemistry Program has begun routine tissue samples analyses. However, due to staffing constraints, sample analysis throughput is currently limited.



Dr. Sergei Tolmachev

Another bit of news is that WSU's Office of Marketing and Creative Services identified the USTUR Laboratory as a "unique facility that is available to the students at WSU".

Our scientific research and collaborations remain strong. I am particularly enthusiastic about Chris Nielsen's research on the microdistribution of plutonium nitrate in the respiratory tract. At an international

level, we have worked closely with scientists from the European Radiation Dosimetry Group. In 2011, USTUR members authored one, and co-authored three scientific papers published in peer-reviewed journals. This newsletter will share the science that is being accomplished through collaborative work with local and international scientists as well as introduce you to new faces at the USTUR.

There is a note of sadness from the passing of Dr. Anthony C. James, the USTUR's retired director, who was a world-class scientist in the field of internal dosimetry.

I simply cannot say how indebted we are to our Registrants and their family members. It is my privilege and honor to express my gratitude to every person who participates in the USTUR's research, and to wish all of you a successful, healthy, and happy 2012!

2011 Registrant Newsletter

- Distributed to:
 - ✓ ~80 living Registrants
 - ✓ ~110 next-of-kin
- A copy is provided in the "Bonus Materials" section of the meeting binder.

