

Organizers and Sponsors of the Workshop on "Future Prospects for Medical Isotopes at Hanford and the Tri-Cities"

Conference Organizers:

* James Acord (private business) *

Darrell Fisher (PNL)

Michael Fox (WHC)

Susan Golladay (WHC)

Ronald Kathren (WSU-TC)

James Mayeda (WHC)

Robert Schenter (WHC)

Donald Segna (Mactec)

Thomas Tenforde (PNL)

Dennis Wester (PNL)

(with assistance from other members of the Nuclear Medicine
Research Working Group)

Conference Secretary:

Marilyn Hladek (PNL)

Sponsors:

Pacific Northwest Laboratory, Westinghouse Hanford Company,
U.S. Department of Energy, and PNL Office of Industrial
Competitiveness (Director: J.T.A. Roberts)

**Future Prospects for Medical Isotopes
at Hanford and the Tri-Cities**

Lewis & Clark Room
Tower Inn, Richland, WA
March 17, 1995

Agenda

- 08:30 - 08:45 Welcoming remarks (Thomas Tenforde)
- 08:45 - 09:10 Hanford's legacy and future role in medical isotope production (Robert Schenter)
- 09:10 - 09:40 Modern horizons in cancer therapy with radiolabeled antibodies (Darrell Fisher)
- 09:40 - 10:00 Yttrium-90: A Hanford success story (Susan Golladay)
- 10:00 - 10:30 Coffee break
- 10:30 - 10:45 Hanford-industry partnerships in the preparation of Yttrium-90 compounds (James Mayeda)
- 10:45 - 11:10 Future plans for Hanford medical isotope production and applications (Michael Fox)
- 11:10 - 11:30 Linkages of government, industry, academia, and health care providers in medical isotope production and applications (Ronald Kathren)
- 11:30 - 11:45 DOE's perspective on the role of Hanford in medical isotope production (Ronald Izatt)
- 11:45 - 12:00 The public's perspective on the role of Hanford in supplying medical isotopes (James Acord)
- 12:00 - 1:30 PM Lunch (poolside buffet at Tower Inn)

We were there!!

at Hanford
3 Mega curies of Cs 137
2 million metric tons of nuclear material

Acord - media - Pub. Info Chairman

I wrote this ... god, what has my
life come to!!??!!
3/21/95

Hanford Isotope Program Plan

Objective: To bring about the maximum benefit to mankind through the peaceful use and application of Nuclear Isotopes.

Strategy: To partner and team with private industry and the government in establishing cost effective commercial applications of nuclear isotopes in such diverse fields as medicine, agriculture, power, and environmental cleanup. Primary cost recovery for this program will be through the sale of isotopes, Hanford Waste minimization cost savings, revenue from private companies utilization of Hanford facilities and resources, and Technology Transfer Program funding.

Short Term Goals (1-2 years):

1. Establish a commercial company here at Hanford to manufacture and distribute Yttrium-90 Isotope for medical treatment applications. (expect to take 1-2 years). It may be possible to get DuPont to build a facility or use an existing Hanford Facility here since they are interested in buying bulk quantities of Y-90 for resale to their customers. Initial cost recovery should come from the DOE-HQ technology transition program. Cost recovery of future support for this activity should be through a contract agreement with the manufacturer to take a small percentage of Yttrium-90 sales to reinvest into research and development for improving the processing of this isotope and for new medical isotopes.
2. Establish a commercial company here at Hanford to manufacture and distribute Cesium 137 capsules for use in food irradiation. GrayStar is interested so we need to find out if we have any available facilities and how this can be accomplished.
3. Create an Information Center for communication to other private industries on the many potential applications of Nuclear Isotopes. Work with state and local governments to package and distribute this information. Establish a base level of funding for this activity and coordinate with existing Hanford resources. Funding should be identified under DOE-RL's Technology Transfer Program and funding limited to 2-3 years. Establish a business tax (TRIDEC) to continue support for this program as needed.
4. Create a Hanford Isotope Program Research and Development Plan for DOE-HQ to review and approve for supporting the basic research needed to identify product isotopes and thus minimize Hanford's nuclear waste material. Plan should focus on specific commercial isotopes and amount of waste minimized along with the cost of waste processing. Initiate project for Ra-223 alpha emitter isotope under this program plan.
5. Determine what is needed to develop local infrastructure to support a cancer ^{isotope} treatment program, if feasible. Part of the problem with technology transfer to local organizations is the training and startup costs to implement. Funding for this project needs to be identified or supported through a Tri-City Organization. DOE-RL funding is extremely limited due to cutbacks here at Hanford. If we get money from DOE-RL, it must be utilized in the most frugal manner!

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