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AAHP Special Session

"Radiation Dose Reconstruction for Epidemiology"
2010 Health Physics Society Annual Meeting
Salt Lake City, Utah • Tuesday, 29 June 2010

As a means for health physicists to keep current on the scientific bases for radiation protection, the Academy Special Session at the 2010 Health Physics Society (HPS) Annual Meeting 27 June-1 July in Salt Lake City will focus on radiation dose reconstruction for epidemiology. Although most health physicists do not work directly in this field, all will be interested in current issues and challenges that differ from operational dosimetry.

This session has been organized primarily by Dan Strom from Pacific Northwest National Laboratory, who has a strong interest and expertise in dose reconstruction. The morning session will be cochaired by Marina Degteva from the Urals Research Center for Radiation Medicine and Richard Vetter from Mayo Clinic, who is past president of the Academy. The afternoon session will be chaired by Strom and Vetter.

The speakers, six of whom will travel from overseas to present in the American Academy of Health Physics

(AAHP) session, have unique and firsthand knowledge of radiation dose reconstruction. Some have a prospective view of the subject, and some have conducted retrospective studies of doses to unique populations. The session is designed to provide a broad picture of the current state of radiation dose reconstruction for epidemiology from an international perspective.

The morning session will include discussions of fundamentals and uncertainties of dose reconstruction as well as results from studies of several unique populations. The afternoon session will include results from several Russian studies and a comparison of dose reconstruction for epidemiology versus compensation decisions. Strom and Degteva will conclude the session with a summary and interpretation of the presentations.

A preliminary program for the session is provided on page 23 of this newsletter. Some speakers may change due to personal schedules.

ABHP Examination No. 1 - June 1960

A 10-point question from the first ABHP exam is listed below. Candidates were required to answer 15 out of 20 10-point questions, plus a 50-point essay in an exam time limit of three hours.

13. Maintenance work must be done on a piece of equipment such that the workmen will be 5' from a valve internally contaminated to a level of 500 r/hr at 6" from the center of the valve. The work is expected to require approximately four hours. What is the thickness of lead shielding which would be required to reduce the field of radiation to a level which would limit the exposure of the workmen to 200 mrem? (Use a total absorption coefficient of 1.19 per cm and a build-up factor of 1.2.)

AAHP Special Session • Preliminary Program
“Radiation Dose Reconstruction for Epidemiology”

Tuesday, 29 June 2010
Morning Session (8:30-Noon)

Introductory Remarks and Overview	<i>Rich Vetter and Dan Strom</i>
The Needs of a “Customer” of Dose Reconstruction	<i>Ethel Gilbert</i>
The New NCRP Report “Fundamentals of Dose Reconstruction”	<i>Bruce Napier</i>
Uncertainties (Berkson vs. classical, shared vs. unshared, and autocorrelation over time within individuals)	<i>Dan Strom</i>
Skeletal Dose Estimates for Radium Dial Painters	<i>Richard Toohey</i>
Radon Dosimetry and Uranium Miner Dosimetry	<i>Tony James</i>
Japanese Bomb Survivors	<i>Harry Cullings</i>
15-Country Worker Study	<i>Isabel Thierry-Chef</i>
Radiologic Technologists	<i>Steve Simon</i>
Chernobyl Dosimetry Public	<i>André Bouville</i>

— Break for AAHP Awards Luncheon —

Afternoon Session (2:30-5:15)

External Dose Reconstruction for Mayak (Plutonium Production) Workers	<i>Evgeny Vasilenko*</i>
Internal Dose Reconstruction for Plutonium and Americium	<i>Victor Khokhryakov*</i>
Bayesian Methods (WeLMoS Method) and Uncertainty	<i>Alan Birchall</i>
Dosimetry for the Extended Techa River Cohort (Russia)	<i>Marina Degteva</i>
Similarities and Differences between Dose Reconstruction for Epidemiology and Dose Reconstruction in Support of Compensation Decisions	<i>Jim Neton</i>
Wrap-Up	<i>Dan Strom and Marina Degteva</i>

*will speak through an interpreter

— Adjourn to AAHP Business Meeting —