



Annual USTUR Advisory Committee Meeting

May 9, 2008

Richard R. Brey, Ph.D., C.H.P.

Professor of Physics/ Director ISU Health
Physics Program

The USTUR - ISU Collaboration

- Collaboration begins to build momentum
- Much effort has gone into:
 - Reviewing the USTUR data base and improving its content
 - Developing expertise in internal dosimetry
- We anticipate the graduation of two M.S. students and one Ph.D. student this spring

Liesl Germann M.S.



- Liesl Germann
- M.S, Health Physics
- Considering NCRP Wound Model Using USTUR cases 262, 344, and 151
- Presented Poster last year at Annual HPS meeting comparing the empirical resolution of case 252 to the wound model

Dan Mecham M.S.



- Dan Mecham
- M.S. Health Physics
- Working with James Brey, and Shonka considering magnitude of Pu in members of the general public in region of Los Alamos from 1950s through today
- Evaluating if the reanalysis of registry tissue using current techniques with much better sensitivity would be cost effective in terms of providing real activity information rather than non-detectable.

Travis Matthews M.S.



- Travis Matthews
- M.S. Health Physics
- Considering and improving the validity of the extrapolation of skull and patella external measurements to bone deposition estimates.

Erika Shelton M.S.



- Erika Shelton
- M.S. Health Physics
- Starting project to evaluate the NCRP wound model for wounds involving more soluble forms of Pu.

Robert Acha Ph.D.



- Robert Acha
- Ph.D. Health Physics
- Preparation for comprehensive examination
- Project undefined

Maia Avtandilashvili Ph.D.



- Maia Avtandilashvili
- Ph.D. Health Physics
- Has evaluated a great many USTUR registrant cases.
- Writing case summaries for each case evaluated
- Interested in defining the translocation kinetics associated with inhalation of the apparent class Super S -high fired Pu from the Rocky Flats fire.
- Considering improvements in the definition of and acceptable ranges for default translocation parameters throughout the ICRP models relevant to proposed probabilistic dosimetry schemes rather than current deterministic approaches

Nino Chelidze Ph.D.



- Nino Chelidze
- Ph.D. Health Physics
- Considering improvements in the definition of and acceptable ranges for default translocation parameters throughout the ICRP models.
- Developing software algorithms that helps define most probable and distribution information on ranges of various translocations parameters used in ICRP models based upon USTUR registrant data

Nazi Fallahian Ph.D.



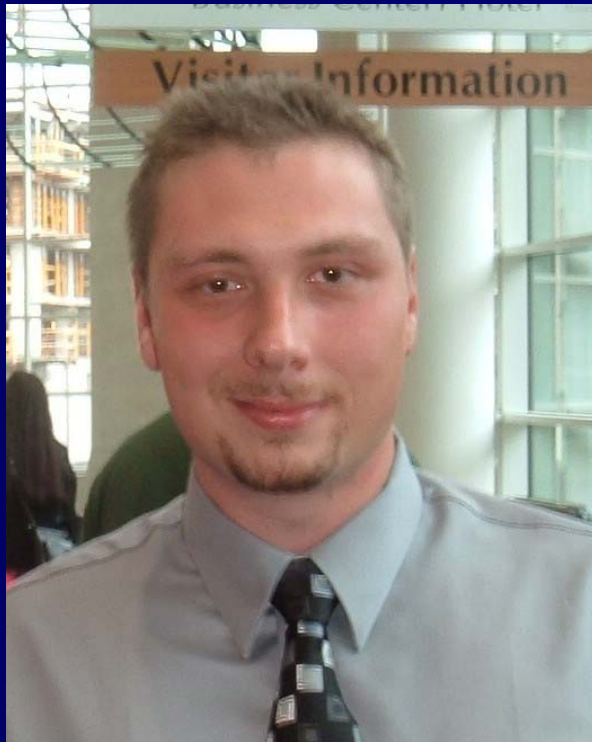
- Nazi Fallahian
- Ph.D. Health Physics
- Conducting epidemiological investigation of USTUR data base

Morris Hall Ph.D.



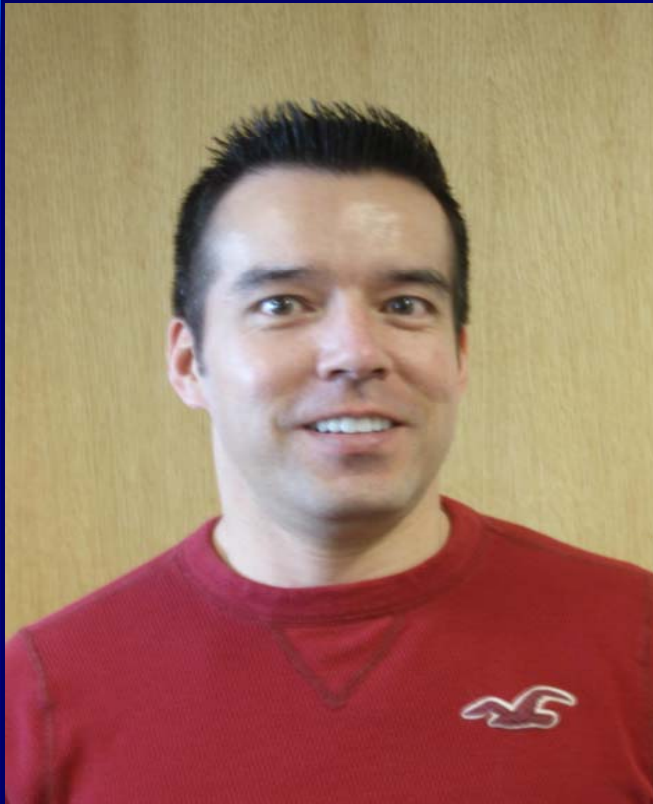
- Morris Hall
- Preparation for comprehensive examination
- Project undefined

George Tabatadze PhD.



- George Tabatadze
- Ph.D. Health Physics
- Preparation for comprehensive examination
- Project undefined but considering voxel modeling of case 0102.

Kevin Claver M.S.



- Kevin Claver
- M.S. Health Physics
- Interested in performing detailed gamma spectroscopic analysis of Am-241 concentrations in soft tissue mostly associated with case 0846.