

Institut für Strahlenschutz

AG Risikoanalyse (ISAR)

Publikationen aus der Arbeitsgruppe im Jahr 1997:

BEITRÄGE IN INTERNATIONALEN FACHZEITSCHRIFTEN

Beresford, N.A.*, Mayes, R.W.*, Barnett, C.L.*, Lamb, C.S*, Wilson, P.J.*, Howard, B.J.*, Voigt, G.: **The effectiveness of oral administration of potassium iodide to lactating goats in reducing the transfer of radioiodine to milk.** J. Environ. Radioactiv. 35, 115-128 (1997)

Bulur, E., Göksu, H.Y.: **IR stimulated luminescence from ZnS and SrS based storage phosphors: A re-examination with Linear Modulation Technique.** Phys. status. solidi. a 161, R9 (1997)

Bulur, E., Göksu, H.Y.: **Pulsed optically stimulated luminescence from $x\text{-Al}_2\text{O}_3\text{:C}$ using green light emitting diodes.** Radiat. Meas. 27, 479-488 (1997)

Drozdovitch, V.V.*, Goulko, G., Minenko, V.F.*, Paretzke, H.G., Voigt, G., Kenigsberg, Y.*: **Thyroid dose reconstruction for the population of Belarus after the Chernobyl accident.** Radiat. Environ. Bioph. 36, 17-23 (1997)

Friedland, W., Jacob, P., Paretzke, H.G.: **Biophysical simulations of DNA fragments from low-LET radiation.** Radiat. Res. 148, 486-487 (1997)

Göksu, H.Y., Adamiec, G.*, Stoneham, D.*: **Accident dose estimation using porcelain. A comparison between different thermoluminescence methods.** Radiat. Meas. 27, 389-392 (1997)

Goulko, G., Kairo, I. A.*: **^{131}I Thyroid activities were not underestimated due to systematic bias in Measurements in Ukraine after the Chernobyl accident.** Radiat. Prot. Dosim. 72, 145-146 (1997)

Heidenreich, W., Luebeck, E.G.*, Moolgvakar, S.*: **Some properties of the hazard function of the two-mutation clonal expansion model.** Risk. Analysis 17, 391-399 (1997)

Heidenreich, W.F., Paretzke, H.G., Jacob, P.: **Reply to the „Commentary“ by D.A. Pierce and D.L. Preston.** Radiat. Environ. Bioph. , 211-212 (1997)

Heidenreich, W.F., Paretzke, H.G., Jacob, P.: **No evidence for increased tumor rates below 200 mSv in the atomic bomb survivors data.** Radiat. Environ. Bioph. 6, 205-207 (1997)

Heidenreich, W., Jacob, P., Paretzke, H.G.: **Exact solutions of the clonal expansion model and their application to the incidence of solid tumors of the atomic bomb survivors.** Radiat. Environ. Bioph. 36, 45-58 (1997)

Hübner, S., Göksu, H.Y.: **Retrospective dosimetry using the OSL-pre-dose effect**

in porcelain. Appl. Radiat. Isot. 48, 1231-1235 (1997)

Ivannikov, A.I.*, Skvortzov, V.G.*, Stepanenko, V.F.*, Tikunov, I.M.*, Romanyukha, A.A.*, Wieser, A.: **Wide-scale EPR retrospective dosimetry: results and problems.** Radiat. Prot. Dosim. 71, 175-180 (1997)

Jacob, P., Gering, F., Meckbach, R.: **Kerma rates in air several years after a Cs-137 deposition.** Kerntechnik 62, 99-103 (1997)

Jacob, P., Friedland, W., Stork, T.: **Track structure calculations, chromatin fibre structure and DNA fragment size distributions.** Radioprotection 32 (C1), 9-10 (1997)

Merzagora, M.*, Friedland, W., Jacob, P., Monforti, F.*, Ottolenghi, A.*, Paretzke, H.G.: **Influence of the initial spatial distribution of radical species in irradiated water on their subsequent diffusion, reaction and attack on DNA.** Radiat. Res. 148, 488-489 (1997)

Müller, H., Bleher, M.: **Exposure pathways and dose calculations in RODOS: improvement of predictions by measured data.** Radiat. Prot. Dosim. 73, 61-66 (1997)

Müller, H., Ehrhardt, J.*, Brown, J.*, French, S.*, Kelly, G.N.*: **RODOS: Decision - making support for off-site emergency management after nuclear accidents.** Kerntechnik 62, 122-128 (1997)

Pröhl, G., Poon, C.B.*, Au, S.M.*, Müller, H.: **Adaption of ECOSYS-87 to Hong Kong environmental conditions.** Health Phys. 72, 856-864 (1997)

Pröhl, G., Müller, H., Voigt, G., Vogel, H.*: **The transfer of Cs-137 from barley to beer.** Health Phys. 72, 111-113 (1997)

Sobolev, B.*, Heidenreich, W., Kairo, I.*, Jacob, P., Goulko, G., Likhtarev, I.*: **Thyroid cancer incidence in Ukraine after the Chernobyl accident: Comparison with spontaneous incidence.** Radiat. Environ. Bioph. 36, 195-199 (1997)

ÜBERSICHTSARTIKEL, TAGUNGS- UND BUCHBEITRÄGE, U.Ä.

Dingfelder, M., Hantke, D., Inokuti, M.: **Electron Inelastic Scattering Cross Sections in Liquid Water.** 12th Symposium on Microdosimetry, 29.09. - 04.10.96, Keble College, Oxford, Großbritannien. In: Microdosimetry: an interdisciplinary approach, (Eds. D.T. Goodhead, P. O'Neill, H. Menzel) 23-26 (1997)

Friedland, W., Jacob, P., Paretzke, H.G., Perzl, M., Stork, T.: **Simulation of Strand Breaks and Short DNA fragments in the Biophysical Model PARTRAC.** 12th Symposium on Microdosimetry, 29.09. - 04.10.96, Keble College, Oxford, Großbritannien. In: Microdosimetry: an interdisciplinary approach, (Eds. D.T. Goodhead, P. O'Neill, H. Menzel) 23-26 (1997)

Gering, F., Müller, H.: **Radioecological modelling and dose estimation in RODOS.** Proceedings of ANS Sixth Topical Meeting on Emergency Preparedness and Response, San Francisco, California; April 22-25 1997, 413-416 (1997)

Göksu, H.Y.: **Luminescence Methods in Retrospective Dosimetry using**

Porcelain.In: Proceedings of the Second Hiroshima International Symposium on „Effects of Low Level Radiation for Residents Near Semipalatinsk Nuclear Test Sites“, Hiroshima, Japan, 23.-25.7.96 (Eds.: M. Hoshi, J. Takada, R. Kim, Y. Nitta) Hiroshima: Daigaku Letterpress, 251-260 (1997)

Heidenreich, W.: **Stochastic tumor models.** In: Group 21. Physical applications and mathematical aspects of geometry, groups, and algebras, (Eds. H.-D. Doebner, W. Scherer, C. Schulte) 879-881 (1997)

Kiefer, P., Pröhl, G., Müller, H., Lindner, G.*, Drissner, J.*, Zibold, G.*:
Radiocäsiumtransfer Boden-Reh in einem süddeutschen Waldökosystem. In: Radiocäsium in Wlad und Wild (Hrsg.: H. Hecht, K.O. Honikel) Bundesanstalt für Fleischforschung in Kulmbach 77-86 (1997)

Voigt, G.: **Physical transport and chemical and biological processes in agricultural systems.** Health impacts of large releases of radionuclides. Wiley, Chichester (Ciba Foundation Symposium 203), 3-20 (1997)

Voigt, G., Burrough, N.*, Crout, N.*, Howard, B.J.*, Rauret, G.*, Sansone, U.*, Strand, P.*: **Restoration strategies for radioactive contaminated ecosystems (RESTORE).** In: Effects of low-level radiation for residents near Semipalatinsk nuclear test site, Hiroshima, 23.-25. Juli 1996 (Eds. M. Hoshi, J. Takada, R. Kim, Y. Nitta) 101-114 (1996)

GSF-BERICHTE UND BERICHTE ANDERER INSTITUTIONEN

Jacob, P., Pröhl, G., Schneider, K.*, Voß, J.-U.*: **Machbarkeitsstudie zur Verknüpfung der Bewertung radiologischer und chemisch-toxischer Wirkungen von Altlasten.** Forschungsbericht 203 40 814/01 und /02 UBA-FB 97-070 1-145 (1997)

Reiners, Chr.*, Streffer, C.*, Paretzke, H.G., Voigt, G., Heinemann, G.*, Pfob, H.*:
Wissenschaftler helfen Tschernobyl-Kindern. Abschlußbericht der Phase I. GSF Neuherberg, GSF-Bericht 29/97 (1997)

Robl, R., Voigt, G., Paretzke, H.-G.: **Rekonstruktion der Schilddrüsendosis für Kinder mit Schilddrüsenkrebs in Weißrußland.** GSF Neuherberg, GSF-Bericht 24/97 (1997)

Voigt, G., Schotola, C., Crout, N.M.J.*, Absalom, J.*: **Investigations on the effect of grazing intensity on the transfer of radionuclides to cow's milk.** GSF Neuherberg, GSF-Bericht 15/97, 1-45 (1997)

* externe Autoren