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ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiation Oncology

Publications

PUBLICATIONS

- **Obituary: C.J. Karmark** *MEDICAL PHYSICS*
  Fessenden, P., Hughes, B.
  2005; 32 (5): 1446-1447

- **MAMMALIAN-CELL SURVIVAL STUDIES CHARACTERIZING MULTIPORT NEGATIVE PI-MESON IRRADIATION WITH THE STANFORD MEDICAL PION GENERATOR (SMPG)** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
  Li, G. C., Fessenden, P., Hahn, G. M., Fisher, G., Luxton, G., Bagshaw, M. A.
  1994; 10 (3): 361-370

- **THERMOMETRY OF INTERSTITIAL HYPERTHERMIA GIVEN AS AN ADJUVANT TO BRACHYTHERAPY FOR THE TREATMENT OF CARCINOMA OF THE PROSTATE** *34th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
  Prionas, S. D., Kapp, D. S., Goffinet, D. R., BenYosef, R., Fessenden, P., Bagshaw, M. A.
  PERGAMON-ELSEVIER SCIENCE LTD.1994: 151–62

- **AUTOMATION OF TEMPERATURE CONTROL FOR LARGE-ARRAY MICROWAVE SURFACE APPLICATORS** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
  Zhou, L., Fessenden, P.
  1993; 9 (3): 479-490

- **BODY CONFORMABLE 915 MHZ MICROSTRIP ARRAY APPLICATORS FOR LARGE SURFACE-AREA HYPERTHERMIA** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
  Lee, E. R., WILSEY, T. R., TARCZYHORNOCH, P., Kapp, D. S., Fessenden, P., LOHRBACH, A., Prionas, S. D.
  1992; 39 (5): 470-483

- **PARAMETERS PREDICTIVE FOR COMPLICATIONS OF TREATMENT WITH COMBINED HYPERTHERMIA AND RADIATION-THERAPY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Kapp, D. S., Cox, R. S., Fessenden, P., Meyer, J. L., Prionas, S. D., Lee, E. R., Bagshaw, M. A.
  1992; 22 (5): 999-1008

- **2 OR 6 HYPERTHERMIA TREATMENTS AS AN ADJUNCT TO RADIATION-THERAPY YIELD SIMILAR TUMOR RESPONSES - RESULTS OF A RANDOMIZED TRIAL** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Kapp, D. S., Petersen, I. A., Cox, R. S., Hahn, G. M., Fessenden, P., Prionas, S. D., Lee, E. R., Meyer, J. L., Samulski, T. V., Bagshaw, M. A.
  1990; 19 (6): 1481-1495
- **DEVELOPMENT OF TOTAL-SKIN ELECTRON THERAPY AT 2 ENERGIES** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Cox, R. S., Heck, R. J., Fessenden, P., KARZMARK, C. J., RUST, D. C.
  1990; 18 (3): 659-669
- **SPIRAL MICROSTRIP HYPERTHERMIA APPLICATORS - TECHNICAL DESIGN AND CLINICAL-PERFORMANCE** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Samulski, T. V., Fessenden, P., Lee, E. R., Kapp, D. S., Tanabe, E., McEuen, A.
  1990; 18 (1): 233-242
- **THERMAL CONDUCTION EFFECTS ASSOCIATED WITH TEMPERATURE-MEASUREMENTS IN PROXIMITY TO RADIOFREQUENCY ELECTRODES AND MICROWAVE ANTENNAS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Ryan, T. P., Samulski, T. V., Lyons, B. E., Lee, E., HOLDREN, D., Fessenden, P., STROHBEHN, J. W.
  1989; 16 (6): 1557-1564
- **HEAT-LOSS AND BLOOD-FLOW DURING HYPERTHERMIA IN NORMAL CANINE BRAIN .1. EMPIRICAL-STUDY AND ANALYSIS** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
  Lyons, B. E., Samulski, T. V., Cox, R. S., Fessenden, P.
  1989; 5 (2): 225-247
- **HEAT-LOSS AND BLOOD-FLOW DURING HYPERTHERMIA IN NORMAL CANINE BRAIN .2. MATHEMATICAL-MODEL** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
  Samulski, T. V., Cox, R. S., Lyons, B. E., Fessenden, P.
  1989; 5 (2): 249-263
- **HYPERTHERMIC ONCOLOGY - CURRENT BIOLOGY, PHYSICS AND CLINICAL-RESULTS** *PHARMACOLOGY & THERAPEUTICS*
  Meyer, J. L., Kapp, D. S., Fessenden, P., Hahn, G. H.
  1989; 42 (2): 251-288
- **STANFORD-UNIVERSITY INSTITUTIONAL REPORT .1. EVALUATION OF EQUIPMENT FOR HYPERTHERMIA TREATMENT OF CANCER** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
  Kapp, D. S., Fessenden, P., Samulski, T. V., Bagshaw, M. A., Cox, R. S., Lee, E. R., LOHRBACH, A. W., Meyer, J. L., Prionas, S. D.
  1988; 4 (1): 75-115
- **FINAL REPORT OF THE NCI HYPERTHERMIA EQUIPMENT EVALUATION CONTRACTORS GROUP .1.** *INTERNATIONAL JOURNAL OF HYPERTHERMIA*
  Sapozink, M. D., CETAS, T., Corry, P. M., Egger, M. J., Fessenden, P.
  1988; 4 (1): 1-15
- **CORRELATIONS OF THERMAL WASHOUT RATE, STEADY-STATE TEMPERATURES, AND TISSUE-TYPE IN DEEP SEATED RECURRENT OR METASTATIC TUMORS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Samulski, T. V., Fessenden, P., Valdagni, R., Kapp, D. S.
  1987; 13 (6): 907-916
- **HEATING DEEP SEATED ECCENTRICALLY LOCATED TUMORS WITH AN ANNULAR PHASED-ARRAY SYSTEM - A COMPARATIVE CLINICAL-STUDY USING 2 ANNULAR ARRAY OPERATING CONFIGURATIONS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Samulski, T. V., Kapp, D. S., Fessenden, P., LOHRBACH, A.
  1987; 13 (1): 83-94
- **Anatomical site-specific modalities for hyperthermia.** *Cancer research*
  Bagshaw, M. A., TAYLOR, M. A., Kapp, D. S., Meyer, J. L., Samulski, T. V., Lee, E. R., Fessenden, P.
  1984; 44 (10): 4842s-4852s
- **ANATOMICAL SITE-SPECIFIC MODALITIES FOR HYPERTHERMIA** *CANCER RESEARCH*
  Bagshaw, M. A., TAYLOR, M. A., Kapp, D. S., Meyer, J. L., Samulski, T. V., Lee, E. R., Fessenden, P.

1984; 44 (10): 4842-4852

- **EXPERIENCE WITH A MULTITRANSDUCER ULTRASOUND SYSTEM FOR LOCALIZED HYPERTHERMIA OF DEEP TISSUES** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
  Fessenden, P., Lee, E. R., Anderson, T. L., STROHBEHN, J. W., Meyer, J. L., Samulski, T. V., Marmor, J. B.
  1984; 31 (1): 126-135

- **DIRECT TEMPERATURE-MEASUREMENT** *CANCER RESEARCH*
  Fessenden, P., Lee, E. R., Samulski, T. V.
  1984; 44 (10): 4799-4804

- **THE PIOTRON - INITIAL PERFORMANCE, PREPARATION AND EXPERIENCE WITH PION THERAPY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  VONESSEN, C. F., Blattmann, H., Crawford, J. F., Fessenden, P., Pedroni, E., Perret, C., Salzmann, M., Shortt, K., WALDER, E.
  1982; 8 (9): 1499-1509

- **MICRODOSIMETRY OF MULTIPORT IRRADIATION WITH THE STANFORD MEDICAL PION GENERATOR** *RADIATION RESEARCH*
  Luxton, G., Fessenden, P., Zeman, H. D.
  1981; 85 (2): 238-256

- **MICRODOSIMETRIC MEASUREMENTS OF PRE-THERAPEUTIC HEAVY-ION BEAMS** *RADIATION RESEARCH*
  Luxton, G., Fessenden, P., Hoffmann, W.
  1979; 79 (2): 256-272

- **DOSIMETRY FOR TANGENTIAL CHEST WALL IRRADIATION** *RADIOLOGY*
  Fessenden, P., PALOS, B. B., KARZMARK, C. J.
  1978; 128 (2): 485-489

- **INTRODUCTION TO USE OF NEGATIVE PI-MESONS IN RADIATION-THERAPY - RUTHERFORD 1964, REVISITED** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Bagshaw, M. A., Li, G. C., PISTENMA, D. A., Fessenden, P., Luxton, G., HOFFMANN, W. W.
  1977; 3: 287-292

- **TREATMENT PLANNING FOR NEGATIVE PI-MESON RADIATION-THERAPY - SIMULTANEOUS MULTI-PORT IRRADIATION WITH STANFORD MEDICAL PION GENERATOR (SMPG)** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  PISTENMA, D. A., Li, G. C., Fessenden, P., White, K., Bagshaw, M. A.
  1977; 3: 315-323

- **DOSIMETRY OF BEAMS FOR NEGATIVE PI-MESON RADIATION-THERAPY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Dicello, J. F., Fessenden, P., Henkelman, R. M.
  1977; 3: 299-306