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EIGHTH US-USSR WORKSHOP: PHYSICAL FACTORS IN THE ENVIRONMENT

The Eighth US-USSR Workshop on Physical Factors in the Environment was held in Midway, Utah from June 18-21, 1991. This cooperative effort, which comes under the US-USSR Cooperation for Health, is one of about 15 current bilateral programs dealing with various aspects of human health and disease of interest to both countries. The initiative in the area of environmental health began in 1974 and has continued up to the present time. The primary purpose of this cooperation is to provide a vehicle for free information exchange and to encourage coordination of research programs and joint research projects. The focus of the program has been in the biological effects and health implications of nonionizing (electromagnetic) radiation of both ELF (60 Hz) and higher frequencies often referred to as radiofrequency and/or microwaves.

The USSR delegation was headed by Michael Shandala of the All Union Scientific Research Institute for Preventive Toxicology and Disinfection in Moscow; the US delegation was headed by John Monahan of the Food and Drug Administration in Rockville, Maryland. The workshop was opened with remarks from Shandala and Monahan.

Soviet presentations included: "Methodological Questions for Hygienic Standards on Non-Ionizing Electromagnetic Radiation," Michael G. Shandala; "The Results of Investigations of the Health of Children who Lived in the Vicinity of Radar (Remote Control) Stations," A. Serduk, Republican Scientific Hygiene Center, Kiev; "Impact on the Organization of Experimental Animals of Electromagnetic Fields of 30 MHz," Yu. Dumanski, Republican Scientific Hygiene Center, Kiev; "The Biological Effects of Pulse Modulated Microwave Radiation Produced by Navy Radar (Remote Control) Stations," T. Kalyada, Institute of Hygiene and Occupational Diseases, Leningrad; "Electromagnetic Treatment in Narcology,"

presented by N. N. Vasilevsky, Institute of Experimental Medicine, Leningrad (with authors E. M. Krupitsky and N. B. Suvorov); "The Results of Research on Developmental Mechanisms of Nonspecific Reactions in Organisms to Low-Level Laser Radiation" Yu. Palzcev, Scientific Research Institute of Labor Hygiene and Occupational Diseases, Moscow; "New Biophysical Directions of the Microwave Biological Action of Research on Cooperative Processes," Pavel G. Pleshanov, Institute of Biologically Active Substances, Moscow; "The Results of Research on the Combined Action of Non-Ionizing Radiation," Michael I. Rudnev, Institute of Experimental Radiology at the All-Union Research Center of Radiation Medicine, Kiev; "Comparative Study of the Biological Action of Pulsed and Continuous Wave Electromagnetic Fields (2750 MHz)," Michael G. Shandala; and "The Results of Research on the Absorption of Electromagnetic Energy Compared to the Functional State of Organisms," Nikolai N. Vassilevsky.

U.S. presentations included: "Biological Effects of ELF Electric and Magnetic Fields," Larry E. Anderson, Battelle Northwest, Richland, WA; "Comparison of Magnetic Fields Found to be Effective in Retarding Disease Osteoporosis with those Purported to Have Deleterious Health Effects," Howard Wachtel, EPRI, Palo Alto, CA; "Influence of Electric and Magnetic Fields on Membrane Processes; Neurite Outgrowth in Pheochromocytoma Cells," Carl Blackman and Shawnee G. Benane, EPA, Research Triangle Park, NC; "ELF-Mediated Effects on Calcium Association and Related Cellular Functions of Lymphocytes," Daniel B. Lyle, FDA, Rockville, MD; "Cellular Effects of Continuous and Pulsed Non-Thermal Electromagnetic Radiation (27 and 2450 MHz), Stephen F. Cleary, MCV/VCU, Richmond, VA; "Neurological Effects of Low-Level Microwave Irradiation," H. Lai and A. W. Guy, University of WA, Seattle, WA; "Microwave-Induced Ocular Effects," Henry A. Kues, John C.Monahan, Samuel Koslov and Terry L. Pfenning, Johns Hopkins Univ., APL, Laurel, MD; "Meta-

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Analysis for Determining Efficacy of Cranial Electrostimulation in Alleviation of Withdrawal Symptoms," Mary Ellen O'Connor, Univ. of Tulsa, Tulsa, OK (with Robert Nicholson, and Faust Bianco); "Technological Advances of Hyperthermia in the United States," C. K. Chou, City of Hope National Medical Center, Duarte, CA; and "Free Radicals: A Possible Source of Microwave Induced Ocular Damage," H. A. Kues and John C. Monahan.

Other participants were: Reba Goodman, Columbia University Health Sciences, NY, NY; Imre Gyuk, DOE, Washington, DC; John deLorge and John D'Andrea, Naval Aerospace Medical Lab., Pensacola, FL; Cletus Kanavy, U.S. Air Force, Phillips Lab, Kirkland AFB, NM; Shirley Motzkin, Polytechnic Univ., Brooklyn, NY; Vladimir Yasnetsov, USSR Ministry of Health, Moscow; Olga Timofeeva, Institute of Biologically Active Substances, Moscow; and E. Zubanova, Kharkov Scientific Research Institute of Occupational Diseases, Kharkov.