

THE LONGTERM EFFECTS OF 0 Hz to 3 GHz WIRELESS/WIFI/EMF RADIATION IN THE PUBLIC ARENA

— A TREASURE OF FACTS FROM IGNORED SCIENTIFIC ARCHIVES, 1960 to 1999 —

excerpts from the Introduction, Chapter 3 and Chapter 9 of

Brochure 6: Health Implications of Longterm Exposure to Electromog

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[See prepared document 6d. for a list of the six brochures, and see 3a., 3b., and 6g. for more on disappeared research.]

[Note: bold, italic or arrows to highlight key topics and statements are added.]

From the INTRODUCTION, pages 7-8:

“... Forty years ago, physicians and scientists pressured the **U.S. government** to issue a report on the effects of electromagnetic fields [Brodeur 1977]. In **December 1971**, this report was released under the title Program for Control of Electromagnetic Pollution of the Environment. **The report was written by experts appointed by the U.S. Office of Telecommunications Policy (OTP) in 1968. This expert report revealed the extent of an environmental risk associated with the increasing use of microwaves in technical communication technologies and in the industry that has hardly been known before.** A few quotes from the report will speak for themselves:

‘The electromagnetic radiation emanating from radar, television, communications systems, microwave ovens, industrial heat-treatment systems, medical diathermy units, and many other sources permeate the modern environment, both civilian and military. [...] **This type of man-made radiation exposure has no counterpart in man’s evolutionary background; it was relatively negligible prior to World War II.**’

‘... Power levels in and around American cities, airports, military installations and tracking centers, ships and pleasure craft, industry and homes may already be biologically significant. [...] **Unless adequate monitoring and control based on a fundamental understanding of biological effects are instituted in the near future, in the decades ahead, man may enter an era of energy pollution of the environment comparable to the chemical pollution of today. [...] The consequences of undervaluing or misjudging the biological effects of long-term, low level exposure could become a critical problem for the public health, especially if genetic effects are involved.**’ [Based on quotes in Brodeur 1977, p.14]”

Page 8: “... The review of the Russian research reports and papers on the long-term effects of electromagnetic fields summarized here [in Chapter 3] had been commissioned by the German Federal Agency of Telecommunications (today the Federal Network Agency). **The review results prove that radiation is a cause of multimorbid clinical findings and non-specific regulatory disorders.** That these findings were not welcome by commercial interests is probably responsible for the fact that the 120-page research report immediately disappeared into the archives of the selfsame agency that had commissioned the report in the first place. Likewise, the federal minister of environment was not interested anymore either.

“Both of these reactions, we find, are not compatible with public health. Anybody who finds the strength to accept the necessary responsibility will also have to be willing to depart from the dogma that [wrongly] says that harmful biological effects are only possible through thermal interactions. This would be a breakthrough for a research approach that is becoming more aware of the autonomy of life and the modern life sciences.”

Page 13, beginning of CHAPTER 3, “Results of a Russian Scientific Literature Review on the **Long-Term Exposure Effects** of Radio-Frequency and Microwave Radiation in Humans Between 1960 and 1996”:

“In **1996/1997**, Hecht and Balzer [1997] from the I.S.F Institut für Stressforschung GmbH [Institute for Stress Research], 10115 Berlin, conducted a review of the Russian scientific literature between 1960 and 1997, which had been commissioned by the [German] Federal Agency of Telecommunications (later the regulatory agency, today the Federal Network Agency) with the contract number 4231/630402 from 14/11/1996. Topic: Biologische Wirkungen elektromagnetischer Felder im Frequenzbereich 0 bis 3 GHz auf den Menschen [**Biological Effects of Electromagnetic Fields in the Frequency Range of 0 to 3 GHz in Humans**]. Out of more than 1500 scientific publications, we included **878** in our review report of approximately 120 pages. **In particular, the findings of long-term effects in humans during occupational EMF exposure over several years were considered.**

“After submission, this review report immediately disappeared into the archives of the regulatory agency. Furthermore, this review report was not forwarded to the federal minister of the environment or made public, as had been indicated before. It rather suffered the same fate as the above-mentioned report of the U.S. government from 1971. Only through our own publication efforts have these findings been made known; in the future, they will also be available in Spanish and Italian. **Fortunately, there had been no clause included in our government contract that would prohibit any such publication on our own.**

“In **1999**, when we presented parts of our literature review at the 10th International Congress of Stress in Monetrex (Switzerland), which was partly dedicated to biomagnetism, **we caused quite a shock wave among the scientists from the United States, as they were quick to admit. Why?**

“First: **The exposure limits in Russia and in other former Eastern bloc countries are lower by three orders of magnitude compared to the United States and other European countries.**

“Second: When these lower exposure levels were met and initially healthy subjects were exposed, **pathological find-ings were only detected after three to five years of exposure or even after longer exposure durations. [→] The scientists from the United States confirmed that the term of a research project would last at the most two years, usually shorter. Naturally, adverse effects could not be shown in research projects of this kind.** Sometimes even positive effects were found. Soon we will see why [see brochure].

“Third: **The U.S. scientists did not know anything about the preventive studies of the then USSR**, which had been carried out within the framework of the occupational health and industrial hygiene management.” [Note: See the brochure for Hecht’s description of the excellent state-of-the-art, genuine in situ occupational exposure conditions under which the studies were carried out long-term. They began with healthy subjects and were designed to be rigorously scientific and detailed, especially as regards the questions of durations and reversibility of effects (or not), and what roles other factors play, e.g., chemicals, caffeine.]

Page 15, CHAPTER 3, 3.2.1: “As described in the [Russian] papers, [→] **the type of EMF as well as the exposure limits did not seem to play a dominant role for the causation of chronic health symptoms, but the exposure duration in years if the exposure occurs daily for several hours (2 – 8 hours). Short-term EMF exposures—up to 20 minutes daily—had no essential effects on living processes, even if repeated frequently.**” They noted the slow stages of stress, from initially stimulating to symptomatic to debilitating.

→ Note RE electronic meters: This means that boiling down continuously-repeated quick wireless exposures over the 24/7 timeframe to a total *number* of seconds or minutes per day, *as though the exposure were all at once – such as is done with the spikes of wireless radiation four or more times per minute from electronic meters* – falsifies the continuous long-term nature of the exposures and the actual biological impact. Exposure to the Dirty Electricity EMFs that are generated by all electronic meters is also long-term.

Page 16, CHAPTER 3, 3.2.2: “Important findings after long-term EMF and EF exposure (summary)”

“Objective findings

- Neurasthenia, neurotic symptoms
- EEG changes (breakdown of alpha rhythm into theta and occasional delta rhythm)
- Sleep disorders
- Deformation of the hierarchy of biological rhythm
- Disorders of the hypothalamic-pituitary-adrenal axis
- Arterial hypotension, more rarely arterial hypertension, bradycardia, or tachycardia
- Vagotonic shift in cardiovascular function [disruptions leading to bradycardia and faintness, for instance]
- Hyperactivity of thyroid
- Erectile dysfunction • Digestive disorders
- Slowing down sensorimotor system
- Resting tremor of fingers
- Hair loss • Tinnitus
- Increased susceptibility to infection

[Drogitchina et al. 1966; Drogitchina and Sadchikova 1968, 1965, 1964; Gordon 1966; Ginsburg and Sadchikova 1964; Kapitanenko 1964]”

“Subjective symptoms

- Fatigue, lack of energy
- Day time redness
- Getting red quickly under stress
- Impairment of physical and mental performance
- Reduced concentration and memory
- Lack of concentration • Headaches
- Head dizziness • Attacks of sweating
- Spontaneously occurring excitability due to hypotensive responses, especially under stress
- Cardiac pain, racing heart

[Rubzova 1983; Raki n 1977; Drogitchina et al. 1966; Gordon 1966; Drogitchina and Sadchikova 1965, 1964; Piskunova and Abramowitsch-Poljakov 1961]”

Page 21, CHAPTER 4, 4.3, Table, “**Decline in health status increasingly amplifies EMF effects,” leading to Electromagnetic Hypersensitivity (EHS) and precipitating further declines. “Younger persons show a greater sensitivity to electromagnetic fields than adults.”**

Page 52, CHAPTER 9, “An Appeal to Those in Political Power: Health — A Basic Human Right”:

“On **10 December 1948**, the General Assembly of the United Nations issued the Universal Declaration of Human Rights. In Article 25 of this Human Rights Charta, the right of health is defined as a basic human right. It says in this Charta: ‘Everyone has the right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care and necessary social services.’ **The regulations and policies regarding wireless telecommunication technologies in their current form are against this right to health, as has been revealed by the facts and shown in this brochure. They do so by maintaining exposure limits that represent a pseudoscientific anachronism compared to the evidence currently available in life sciences and thereby put the public at risk. And they do so, in particular, where they deprive persons with electromagnetic hypersensitivity and the microwave syndrome but also the groups of radar victims of the Federal Armed Forces and NVA of this right to health.**

“In my own name [author Karl Hecht], but also in the name of all scientists and health care professionals who have joined forces in the Competence Initiative for the Protection of Humanity, the Environment and Democracy e.V., I hereby appeal to those in political power:

- **Support independent research that protects public health and is not subject to commercial interests.**
- **Establish exposure limits that are scientifically up to date and politically responsible for a sustainable future.**
- **Promote a telecommunications policy that respects the human right to health.**

“With this appeal, we especially call on all members of the German parliament as well as the representatives of the German federal government, with Chancellor Dr. Angela Merkel and her ministers leading the way. Furthermore, we refer to the wording of **the official oath** that leading politicians must swear upon taking office: ‘I swear that I will dedicate my efforts to the well-being of the German people, promote their welfare, protect them from harm, uphold and defend the Basic Law and the laws of the Federation, perform my duties conscientiously, and do justice to all.’”