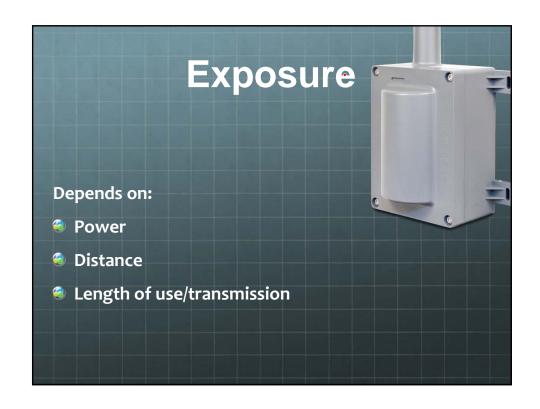


A bit about myself

- 20 years in RF and ELF research
 - **EPRI, Stanford**
 - World Health Organization
 - Now UCLA
 - Over 100 publications
- Numerous Review and Advisory Committees:
 - National Academy of Sciences, EMF-Net EU, WHO, ILO, IARC, NIEHS, Independent Scientific Advisory Group to Swedish Radiation Protection Authority (SSM)
 - ICNIRP Member of the Standing Committee on Epidemiology





"Electromagnetic Hypersensitivity"

- EHS is characterized by a variety of non-specific symptoms that differ from individual to individual
- The symptoms are certainly real and can vary widely in their severity
- No scientific connection between EHS and exposure to RF

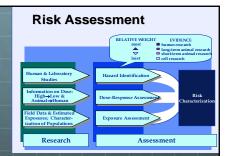
WHO Fact Sheet N° 296

Leeka Kheifets



IARC Carcir	nogenicity Cla	assification
	IARC Classification	Examples of Agents
	Carcinogenic to humans (107) Usually based on strong evidence of carcinogenicity in humans)	Asbestos Alcoholic beverages Berzene Radon gas Solar radiation Tobacco (smoke and smokeless) X-rays and gamma
	Probably carcinogenic to humans (58) Usually based on strong evidence of carcinogenicity in animals)	Biomass smoke Diesel engine exhaust Formaldehyde Polychlorinated biphenyls (PCBs)
	Possibly carcinogenic to humans (250) Usually based on evidence in humans which s considered credible but for which other explanations could not be ruled out)	Coffee ELF magnetic fields Gasoline engine exhaust Glass wool Pickled vegetables Radiofrequency fields
	Not classifiable (512)	Vinyl toluene Tea Hair coloring products (personal use of) Magnetic fields, Static fields
Leeka Kheifets	Probably not carcinogenic to humans (1)	Caprolactam

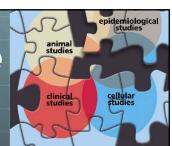
Evaluating Evidence



- A mistake often made by non-scientists is to give inordinate weight to positive studies and to overemphasize selected results within a study that supports their position
- Need a balanced weight of evidence approach
 - Weight depends on the type of evidence, relevance, quality etc.

Leeka Kheifets

Evidence to date



- Thermal effects form the basis for guidelines
- Some indication of risk from selected studies
 - IARC 2B classification
- Overall no consistent indication of risk, but important uncertainties

Leeka Kheifets

CCST REPORT FINDINGS

- Wireless smart meters, result in much smaller levels of RF than cell phones and microwave ovens
- FCC standard provides safety against known thermally induced health impacts
- To date, scientific studies have not confirmed non-thermal impacts of RF
- Not enough is currently known about potential non-thermal effects to recommend additional standards
- Continue Research

Leeka Kheifets

Sage Report

Assumes:

- 100% duty cycle
- A uniform field at peak power density
- Very High Enhancement by reflections
- No frequency weighting for different sources
- Effects claimed are not recognized as confirmed or definitive

NB: Assumptions completely unrealistic and even impossible, at odds with FCC

Leeka Kheifets

