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IEEE P902 11 / 91.

IEEE P802 11 / 91.

TEEE PS07 11 / 91.

IEEE PS02 11 /91



HEALTH AND SAFETY ISSUES

PRESENTED BY: **BOB ROSENBAUM**

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Recent Press

- e "Currents of Death: Power Lines, Computer Terminals and the Attempt to Cover up Their Threat to Your Health" - Paul Brodeur, New Yorker Magazine, June, 1989
- o "Sick of Wires? Sicker With No Wires?" John Dvorak, PC Magazine, May 28, 1991
- e "How safe are wireless nots?"- Mitch Radeliff, MacWeek, September 10, 1991

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TEEE P802 11 / 91.



Status of Standards Activities

- IEEE SCC 28 ANSI C95.1-1990
- Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz

Status In final approval. Due January 92

Chair: Tom Budinger, UC Berkeley

Designator: ANSI C95.1-1990

• IEEE Committee on Man & Radiation (COMAR)

Education & advocacy group

Chair: Jim Lin - Univ of IL

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Related IEEE Standards

- e C952-1981: Radio Frequency Radiation Hazard Warning Symbol; Reaffirmed in 1989
- e C953-1973: Techniques and Instrumentation for the Measurement of Potentially Hazardous Electromagnetic Radiation at Microwave Frequencies; Reaffirmed in 1979
- C95A-1978: Safety Guide for the Prevention of Radio-Frequency Radiation Hazards in the Use of Electric Blasting Caps
- C95.5-1981: Recommended Practice for the Measurement of Hazardous Electromagnetic Fields-RF and Microware

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TEEE PS02 11 /9L



EPA

- Scientific Advisory Board & Committee on Interagency Radiation Research
 - Focused on extremely low frequency and radiofrequency radiation (.003 - 30,000MHz)
 - "_it would be inappropriate at this time to classify the carcinogenicity of EM fields in the same way as the Agency does for chemical carcinogens...With our current understanding, we can identify 60Hz magnetic fields from power lines and perhaps other sources in the home as a possible, but not proven, cause of cancer in

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General Refence Books

- Michaels & Lin: Biological Effect & Health Implications of RF Radiation, 1987, Plenum
- Lin, editors Electromagnetic Interactions with Biological Systems, 1989, Plenum Press

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Prominent Researchers

Henry Kuss - John Hopkins Applied Physics Lab Jim Lin - Univ of Illinois Asher Shepard - J.L. Pettis Mem Veterans' Hospital Ross Adey - " Arthur Guy - Univ of Washington

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Industry Groups

Electromagnetic Energy Policy Alliance (EEPA)

Executive Director: Richard Ekfelt
202-452-1070

"An association of manufacturers and users of electronic and electrical systems that utilize non-ionizing electromagnetic energy in telecommunications, broadcasting, manufacturing and consumer services. EEPA's primary objective is to work for a responsible and rational public policy regarding electromagnetic energy."

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- Linios with IEEE SCC 28 & COMAR
- Lobby with government funding groups to promote research into wireless LAN issues spread spectrum, etc.

Courses of Action for 802.11

• Promote dialogue with key researchers

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11/8/91