

ICNIRP PUBLICATIONS

January 2008 – Updates at icnirp.org

The International Commission on Non-Ionizing Radiation Protection endeavours to communicate its views, advice and recommendations as widely as possible and to consult on these with radiation protection and other medical and science professionals world-wide.

ICNIRP publications broadly consist of the below categories and are listed by topic (EMF, optical, ultrasound, all NIR).

Reviews

These set out the science base and provide ICNIRP's interpretations of the results of the science in respect of understanding effects on human health. In the past such reviews were published in the WHO Health Criteria Documents Series. They are now published as ICNIRP stand-alone publications.

Guidelines

These are based on reviews of the science, they summarise scientific results and set out the basis for limiting exposure and recommend exposure limits. ICNIRP Exposure Guidelines are published in the Journal "Health Physics".

Statements

These provide information and advice on specific topics of non-ionizing radiation protection and/or radiation protection issues related to specific devices or exposure situations. ICNIRP Statements are also published in "Health Physics".

Proceedings

These are publications resulting from scientific seminars, workshops and conferences organised by ICNIRP and/or its partner organizations in non-ionizing radiation protection. Proceedings are published either in special editions of scientific journals or as separate ICNIRP publications.

Joint documents

These are produced jointly by ICNIRP and other organizations such as the International Labour Office, or the World Health Organization and address specific topics.

Caption

Publications marked with the file caption as shown left can be downloaded for free from this site.

Publications marked with the currency sign as shown left can be ordered by sending an e-mail at info@icnirp.org.



Reviews



Review of the Epidemiologic Literature on RF and Health. *Environmental Perspectives* 112 (17): 1741-1754; Dec. 2004.



Exposure to Static and Low Frequency Electromagnetic Fields, Biological Effects and Health Consequences (0-100 kHz) - Review of the Scientific Evidence and Health Consequences. Munich: International Commission on Non-Ionizing Radiation Protection; 2003. ISBN 978-3-934994-03-4.



Review of the Epidemiologic Literature on EMF and Health. *Environmental Perspectives* 109 (Supp 6): 911-934; Dec. 2001.

Guidelines



Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). *Health Physics* 74 (4): 494-522; 1998. Translations available online in Chinese, French, German, Italian, Japanese, Russian and Spanish.



Guidelines on Limits of Exposure to Static Magnetic Fields. *Health Physics* 66 (1): 100-106; 1994.

Statements



Statement related to the Use of Security and Similar Devices utilizing Electromagnetic Fields. *Health Physics* 87(2):187-196; 2004.



Statement on Medical Magnetic Resonance (MR) Procedures: Protection Of Patients. *Health Physics* 87(2): 197-216; 2004.



Guidance on Determining Compliance of Exposure to Pulsed Fields and Complex Non-Sinusoidal Waveforms below 100 kHz with ICNIRP Guidelines. *Health Physics* 84 (3): 383-387; 2003.



Health Issues Related to the Use of Hand-Held Radiotelephones and Base Transmitters. *Health Physics* 70 (4): 587-593; 1996.



Protection of the Patient Undergoing a Magnetic Resonance Examination. *Health Physics* 61 (6): 923-928; 1991.



Alleged Radiation Risks from Visual Display Units - A Statement. *Health Physics* 54 (2): 231-232; 1988. Japanese translation online.

Proceedings



EMF Dosimetry and Biophysical Aspects Relevant To Setting Exposure Guidelines. Proceedings of an International Workshop, March 20-22, 2007, Berlin, Germany. G. Ziegelberger, P. Vecchia, R. Matthes, JH Bernhardt (eds.). *Health Physics* 92(6): 513-658; 2007.



Biological Effects, Health Consequences and Standards for Pulsed Radiofrequency Fields. Proceedings of an International Seminar, Erice, Italy, November 21 to 25, 1999. Munich: International Commission on Non-Ionizing Radiation Protection; 2001. ISBN 978-3-934994-00-3.

Proceedings (cont.)



Effects of Electromagnetic Fields on the Living Environment. Proceedings of the International Seminar on Effects of Electromagnetic Fields on the Living Environment, Ismaning, Germany, October 4 and 5, 1999. Munich: International Commission on Non-Ionizing Radiation Protection; 1999. ISBN 978-3-9804789-9-1.



Health Effects of Electromagnetic Fields in the Frequency Range 300 Hz to 10 MHz. Proceedings of the International Seminar on Health Effects of Electromagnetic Fields in the Frequency Range 300 Hz to 10 MHz, Maastricht, The Netherlands, June 7 and 8, 1999. Munich: International Commission on Non-Ionizing Radiation Protection; 1999. ISBN 978-3-9804789-7-7.



Risk Perception, Risk Communication and its Application to EMF Exposure. Proceedings of the International Seminar on Risk Perception, Risk Communication and its Application to EMF Exposure, Vienna, Austria, October 22-23, 1997. Munich: International Commission on Non-Ionizing Radiation Protection; 1998. ISBN 978-3-9804789-4-6.



Biological Effects of Static and ELF Electric and Magnetic Fields. Proceedings of the International Seminar on Biological Effects of Static and ELF Electric and Magnetic Fields and related Health Risks, Bologna, Italy, June 4-5, 1997. Munich: International Commission on Non-Ionizing Radiation Protection; 1997. ISBN 978-3-9804789-3-9.



Non-Thermal Effects of RF Electromagnetic Fields. Proceedings of the International Seminar on Biological Effects of Non-Thermal Pulsed and Amplitude Modulated RF Electromagnetic Fields and Related Health Risks, Munich, Germany, November 20-21, 1996. Munich: International Commission on Non-Ionizing Radiation Protection; 1997. ISBN 978-3-9804789-2-2.

Report

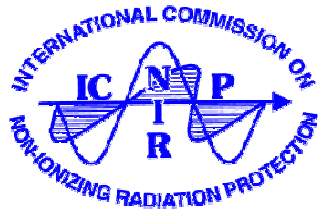


Possible Health Risks to the General Public from the Use of Security and Similar Devices. Munich: International Commission on Non-Ionizing Radiation Protection; 2002. ISBN 978-3-934994-01-0.

Joint Publications ICNIRP/HPA/WHO

Effects of Static Magnetic Fields Relevant to Human Health. Proceedings of an International Workshop, NRPB, Chilton, UK, April 26-27, 2004. D Noble, AF McKinlay, MH Repacholi (eds.). Journal Progress in Biophysics & Molecular Biology, February/April 2005. ISBN 0079-6107.

Weak Electric Field Effects in the Body. Proceedings of an International Workshop, NRPB, Chilton, UK, March 24-25, 2003. AF McKinlay, MH Repacholi (eds.). Nuclear Technology Publishing, Radiation Protection Dosimetry, Vol 106, 4, 2003. ISBN 1904453023.



ICNIRP PUBLICATIONS ON EMF

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Joint Publications ICNIRP/HPA/WHO

Exposure Metrics and Dosimetry for EMF Epidemiology. Proceedings of an International Workshop, NRPB, Chilton, UK September 7-9 1998. AF McKinlay, MH Repacholi (eds.), Nuclear Technology Publishing, Radiation Protection Dosimetry Vol 83, 1-2; 1999. ISBN 1870965612.

Joint Publications ICNIRP/ILO/IRPA-INIRC

Safety in the use of radiofrequency dielectric heaters and sealers: A practical guide. Geneva: International Labour Office; 1998. ISBN 92-2-110333-1.

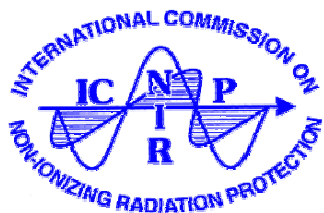
Protection of workers from power frequency electric and magnetic fields; A practical guide. Geneva: International Labour Office; Occupational Safety and Health Series, No. 69; 1993. ISBN 92-2-108261-X/ISSN 0078-3129.

Protection of workers against radio-frequency and microwave radiation: A technical review. Geneva: International Labour Office; 1986. ISBN 92-2-105604-X/ISSN 0078-3129.

Joint Publications ICNIRP/UNEP/WHO

Environmental Health Criteria 137: Electromagnetic Fields (300 Hz to 300 GHz). Geneva: World Health Organization; 1993. ISBN 92-4-157137-3.

Environmental Health Criteria 35: Extremely Low Frequency (ELF) Fields. Geneva: World Health Organization; 1984. ISBN 92-4-154095-8.



ICNIRP PUBLICATIONS ON OPTICAL RADIATION

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Guidelines



Guidelines on Limits of Exposure to Ultraviolet Radiation of Wavelengths Between 180 nm and 400 nm (Incoherent Optical Radiation). Health Physics 87 (2): 171-186; 2004



Revision of the Guidelines on Limits of Exposure to Laser radiation of wavelengths between 400nm and 1.4µm. Health Physics 79 (4): 431-440; 2000



Guidelines on Limits of Exposure to Broad-Band Incoherent Optical Radiation (0.38 to 3µm). Health Physics 73 (3): 539-554; 1997



Guidelines on UV Radiation Exposure Limits. Health Physics 71 (6): 978; 1996



Guidelines on Limits of Exposure to Laser Radiation of Wavelengths between 180 nm and 1 mm. Health Physics 71 (5): 804-819; 1996



Proposed Change to the IRPA 1985 Guidelines on Limits of Exposure to Ultraviolet Radiation. Health Physics 56 (6): 971-972; 1989



Guidelines on Limits of Exposure to Ultraviolet Radiation of Wavelengths between 180 nm and 400nm (Incoherent Optical Radiation). Health Physics 49 (2): 331-340; 1985

Statements



ICNIRP Statement on Far Infrared Radiation Exposure. Health Physics 91(6) 630-645; December 2006



Adjustment of guidelines for exposure of the eye to optical radiation from ocular instruments: statement from a task group of the International Commission on Non-Ionizing Radiation Protection. A?□ Sliney D, Aron-Rosa D, DeLori F, Fankhouser F, Landry R, Mainster M, Marshall J, Rasso B, Stuck B, Trokel S, West T, and Wolfe M. Applied Optics 44 (11): 2162-2176; 2005



Health Issues of Ultraviolet Tanning Appliances used for Cosmetic Purposes. Health Physics 84 (1): 119-127; 2004



Light-Emitting Diodes (LEDS) and Laser Diodes: Implications for Hazard Assessment. Health Physics 78 (6): 744-752; 2000



Laser Pointers. Health Physics 77 (2): 218-220; 1999



Health Issues of Ultraviolet "A" Sunbeds Used for Cosmetic Purposes. Health Physics 61 (2): 285-288; 1991

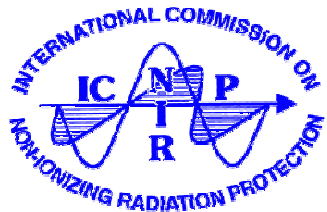


Fluorescent Lighting and Malignant Melanoma. Health Physics 58 (1): 111-112; 1990

Proceedings



UV exposure guidance: a balanced approach between health risks and health benefits of UV and Vitamin D. Proceedings of an International Workshop. Progress in Biophysics and Molecular Biology, Vol 92, Number 1; September 2006 - ISSN 0079-6107



ICNIRP PUBLICATIONS ON OPTICAL RADIATION

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Proceedings (cont.)



Ultraviolet Radiation Exposure, Measurement and Protection. Proceedings of an International Workshop, NRPB, Chilton, UK, 18-20 October, 1999. AF McKinlay, MH Repacholi (eds.) Nuclear Technology Publishing, Radiation Protection Dosimetry, Vol 91, 1-3, 1999. ISBN 1-8709656-5-5.



Measurements of Optical Radiation Hazards, a reference book based on presentations given by health and safety experts on optical radiation hazards, Gaithersburg, Maryland, USA, September 1-3, 1998. Munich: ICNIRP / CIE-Publications; 1999. ISBN 978-3-9804789-5-3.

Report – Joint ICNIRP/ILO/WHO



Protecting Workers from UV Radiation. Vecchia P, Hietanen M, Stuck B, van Deventer E, Niu S (eds). Munich: International Commission on Non-Ionizing Radiation Protection, International Labour Organization, World Health Organization; 2007. ISBN 978-3-934994-07-2.

Other Joint Publications

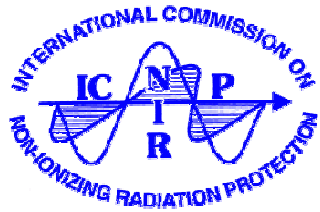
The use of lasers in the workplace; A practical guide, International Labour Office Geneva, 1993 (Occupational Safety and Health Series, No. 68) ISBN 92-2-1082601/ISSN 0078-3129

Global Solar UV Index - 2002. ISBN 92-4-159007-6

Global Solar UV Index - 1995. ISBN 3-9804789-0-4

Environmental Health Criteria 160: (1994) Ultraviolet Radiation, WHO, Geneva, Switzerland, ISBN 92-4-157160-8

Environmental Health Criteria 23: (1982) Lasers and Optical Radiation, WHO, Geneva, Switzerland, ISBN 92-4-154083-4



ICNIRP PUBLICATIONS ON ALL NIR

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General Document



General Approach to Protection against Non Ionizing Radiation. Health Physics 82 (4):540-548; 2002.

Reviews



Review of concepts, quantities, units and terminology for non-ionizing radiation protection. INIRC. Health Physics 49 (6): 1329-1362; 1985.

Guidelines



ICNIRP Publications 1992-2004. A reference CD-ROM based on guidelines on limiting exposure to non-ionizing radiation and statements on special applications. Munich: International Commission on Non-Ionizing Radiation Protection; 2004. ISBN 978-3-934994-05-8.



Guidelines on Limiting Exposure to Non-Ionizing Radiation. A reference book based on guidelines on limiting exposure to non-ionizing radiation and statements on special applications. Munich: International Commission on Non-Ionizing Radiation Protection; 2004. ISBN 978-3-9804789-6-0.

Proceedings



Non-Ionizing Radiation. CD-Proceedings of the 5th International Non-Ionizing Radiation Workshop Seville, Spain, May 20-22, 2004. Munich: International Commission on Non-Ionizing Radiation Protection; 2004. ISBN 978-3-934994-04-1.



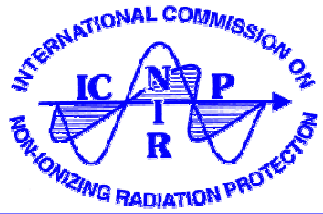
Non-Ionizing Radiation. Executive Summary of the 4th International Non-Ionizing Radiation Workshop Kyoto, Japan, May 22-25, 2000. Munich: International Commission on Non-Ionizing Radiation Protection; 2000. ISBN 978-3-9804789-8-4.



Non-Ionizing Radiation. Proceedings of the 3rd International Non-Ionizing Radiation Workshop Baden (Vienna), Austria, April 22-26, 1996. Munich: International Commission on Non-Ionizing Radiation Protection; 1996. ISBN 978-3-9804789-1-5.

Non-Ionizing Radiation. Proceedings of the 2nd International Non-Ionizing Radiation Workshop, Vancouver, British Columbia, Canada, May 10-14, 1992. IRPA-Publications. The Institution of Nuclear Engineers, 1 Pnerley Road, Catford, London, SE6, GB. ISBN 0-969-59580-8.

Non-Ionizing Radiation. Physical characteristics, biological effects and health hazards assessment. Proceedings of the International Non-Ionizing Radiation Workshop Melbourne, 5-9 April, 1988. Australian Radiation Laboratory, Lower Plenty Road Yallambie, Victoria, Australia. ISBN 0 7326 2370 3.



ICNIRP PUBLICATIONS ON ULTRASOUND

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Guidelines



Interim Guidelines on Limits of Human Exposure to Airborne Ultrasound. Health Physics 46 (4): 969-974; 1984.

Joint Publication

Environmental Health Criteria 22: Ultrasound. Geneva: World Health Organization; 1982. ISBN 92-4-154082-6.