

International Commission on Non-Ionizing Radiation Protection

Chairman's Report 2000 – 2004

INTRODUCTION

This paper summarises the activities of ICNIRP, its membership and its publications for the period 2000 to 2004.

ULF BERGQVIST

It was with great sadness that the Commission heard of the sudden death of Ulf Bergqvist on 11 September 2001. Ulf was a founder member of the Commission and an enthusiastic advocate of its principles and independence. His work for the Commission was characterised by his boundless enthusiasm, intelligence and experience. Ulf was much loved by his fellow Commission members and is sadly missed by all.

MAIN COMMISSION MEMBERSHIP

The main ICNIRP Commission membership for 2000-2004 is presented in Appendix I and for 2004-2008 in Appendix II.

SCIENTIFIC STANDING COMMITTEES

ICNIRP has 4 scientific standing committees (SCs.)

- SC I Epidemiology
- SC-II Biology
- SC-III Physics and Engineering
- SC-IV Optical Radiation

The purpose and remit of these committees is to:

- Review the scientific literature specific to the field of interest of each Committee.
- Prepare specific reports and other publications requested by the main Commission.
- Advise on the preparation of exposure guidelines, statements and other ICNIRP documents requiring multi-disciplinary input.
- Provide expert advice through ICNIRP-organised scientific seminars and other meetings.

The membership of the scientific standing committees as of May 2004 is presented in Appendix III.

CONSULTING MEMBERS

ICNIRP also has a number of consulting members. The purpose and remit of the consulting members is to address ICNIRP's needs in having additional and often technology-specific expertise and to generally widen scientific input to ICNIRP's activities and broaden consultation.

MEETINGS

A summary of ICNIRP main Commission meetings, Chairman's meetings, those associated with the four Standing Committees and associated working groups, international workshops and other meetings organised jointly by ICNIRP and other national and international organisations is presented in Appendix IV.

ICNIRP INTERNATIONAL NIR WORKSHOP AND SYMPOSIUM 2004

This Workshop was held in Seville 20-22 May 2004 immediately preceding the IRPA-11 Madrid Congress – see below. It was organised collaboratively with the World Health Organization's International EMF and INTERSUN Programmes, the International Union of Radioscience (URSI) Commission K and the International Commission on Occupational Health (ICOH). Interest in the Workshop was outstanding and the number attending was over 270 from 44 different countries. 80 scientific posters were presented.

IRPA-11 CONGRESS

ICNIRP made a substantial input to both the scientific and organisational aspects of the 11th International Congress of the International Radiation Protection Association held 23-28 May 2004 in Madrid. All of the non-ionising radiation sessions held at the Congress were very well attended and the platform and poster sessions were very successful.

PUBLICATIONS

ICNIRP produces a variety of publications both by itself and very often in collaboration with other international, European and national scientific bodies.

ICNIRP's formal advice is presented in the form of Exposure Guidelines or as ICNIRP statements published in "Health Physics". These documents are sent to IRPA for review prior to submission for publication. In addition extensive reviews of the science are published in the "Blue Book" series of publications and/or in review articles in scientific journals. Proceedings of international conferences, workshops, symposia and contract reports are published variously as special editions of scientific journals, in the blue book series or as joint publications with other international and European bodies. A list of ICNIRP's publications as of May 2004 is presented in Appendix V.

CO-OPERATION WITH OTHER ORGANIZATIONS

ICNIRP continues to carry out collaborative projects and publish joint reports with a number of international bodies including the World Health Organization (WHO) and its national collaborative organisations, the European Commission and the European Society for Prevention of Skin Cancer (EUROSKIN). ICNIRP was very pleased to receive commendation from the WHO for the support that it provided and to have its official collaborative status renewed.

ICNIRP SCIENTIFIC SECRETARIAT

The ICNIRP Scientific Secretariat is located at the Bundesamt fuer Strahlenschutz (BfS) Munich. As of May 2004, the Scientific Secretary was Ruediger Matthes and the Deputy Scientific Secretary Karine Chabrel. The remuneration for the Deputy Scientific Secretary is paid by the German Ministry of Environment, which the Commission gratefully acknowledges.

FURTHER ACKNOWLEDGEMENTS

The outgoing Chairman gratefully acknowledges the support, hard work and excellence of the scientific advice provided by the Vice-chairman Juergen Bernhardt, the members of the main Commission 2000-2004, the members of the Scientific Standing Committees and the Consulting Members. The excellent support provided by the Scientific Secretariat is also gratefully acknowledged.

Alastair McKinlay
Chairman, ICNIRP 2000-2004

APPENDIX I
ICNIRP Membership 2000-2004

Chairperson	Dr. A.F. McKinlay	United Kingdom
Vice-chairperson	Prof. Dr. J.H. Bernhardt	Germany
Chairman SC-I	Prof. Dr. A. Ahlbom	Sweden
	Dr. U Bergqvist	Sweden
	Dr. J-P. Césarini	France
	Dr. F.R. De Gruijl	The Netherlands
	Dr. M. Hietanen	Finland
	Dr. R. Owen	USA
Chairman SC-IV	Dr. D.H. Sliney	USA
	Prof. Dr. P. Söderberg	Sweden
	Prof. Dr. A. Swerdlow	United Kingdom
Chairman SC-III	Prof. M. Taki	Japan
	Dr. T.S. Tenforde	USA
	Dr. P. Vecchia	Italy
Chairman SC-II	Dr. B. Veyret	France
Chairman Emeritus	Dr. M. Repacholi	Switzerland
Scientific Secretary	Dipl.-Ing. R. Matthes	Germany

APPENDIX II
ICNIRP Membership 2004-2008

Chairperson	Dr. P. Vecchia	Italy
Vice-chairperson	Dr. M. Hietanen	Finland
	Prof. A. Ahlbom	Sweden
	Dr. L. Anderson	United States
	Prof. E. Breitbart	Germany
	Dr. F.R. De Gruijl	The Netherlands
	Dr. J. Lin	United States
	Mr. R. Matthes	Germany
	Mrs. A Peralta	The Philippines
	Prof. Dr. P. Söderberg	Sweden
	Dr. B. Stuck	United States
	Prof. A. Swerdlow	United Kingdom
	Prof. M. Taki	Japan
	Dr. B. Veyret	France
Chairman Emeritus	Dr. M. Repacholi	Switzerland

The appointment of the Scientific Secretary and Chairpersons of Scientific Standing Committees awaits the decision of the new Commission.

APPENDIX III

ICNIRP Scientific Standing Committee Members as of May 2004

Prof. Dr. A. Ahlbom
Karolinska Institutet
Sweden **SC-I Epidemiology Chair**

Prof. Dr. A. J. Swerdlow
Institute of Cancer Research
United Kingdom SC-I

Prof. Dr. P.A. Buffler
University Hospital of California
USA SC-I

Dr. A. Green
Royal Brisbane Hospital, Queensland
Australia SC-I

Dr. L. Kheifets
World Health Organization
Switzerland SC-I

Dr. D. A. Savitz
University of North Carolina
USA SC-I

Dr. B. Veyret
Laboratoire PIOM, Bordeaux
France **SC-II Biology Chair**

Dr. F. R. De Gruijl
Leiden University Medical Centre
The Netherlands SC-II

Dr. T. S. Tenforde
NCRP
USA SC-II

Dr. R. de Seze
INERIS
France SC-II

Dr. W. G. Lotz
NIOSH, Cincinnati
USA SC-II

Dr. R. D. Owen
EPA
USA SC-II

Dr. R. Saunders
NRPB
United Kingdom SC-II

Dr. L. Verschaeve
Vlaamse Instelling voor Technologisch
Belgium SC-II

Prof. Dr. M. Taki
Tokyo Metropolitan University
Japan **SC-III Physics and Eng. Chair**

Dr. P. Vecchia
Istituto Superiore di Sanità
Italy SC-III

Mr. S. Allen
NRPB
United Kingdom SC-III

Dr. H. I. Bassen
Food and Drug Administration
USA SC-III

Prof. Dr. K. Jokela
STUK - Radiation and Nuclear Safety
Finland SC-III

Dr. C. Roy
ARPANSA, Yallambie
Australia SC-III

Dr. D. H. Sliney
U.S. Army Center for Health Promotion
USA **SC-IV Optical Radiation Chair**

Dr. J.-P. Césarini
INSERM
France SC-IV

Prof. Dr. B. L. Diffey
Newcastle General Hospital
United Kingdom SC-IV

Dr. T. Okuno
National Institute of Industrial Health
Japan SC-IV

Dr. K. Schulmeister
ARC Seibersdorf Research
Austria SC-IV

Prof. Dr. P. Söderberg
Karolinska Institutet
Sweden SC-IV

B. E. Stuck
US Army Medical Research Detachment
USA SC-IV

APPENDIX IV***ICNIRP organised and attended meetings 2000-2004*****2000**

ICNIRP 8 th Annual Meeting	Paris, France	29 March - 3 April
4 th International NIR Workshop	Kyoto, Japan	22-25 May
ICNIRP Commission Meeting	Kyoto, Japan	26 May
ICNIRP-IEEE Co-operation Meeting	Munich, Germany	11 June
ICNIRP Workshop on EAS Devices	Helsinki, Finland	19-22 September
ICNIRP/WHO Research Meeting	San Antonio, USA	13 November
WHO Standards Meeting	San Antonio, USA	14 November
ICNIRP Scientific Meeting	San Antonio, USA	15-18 November
International Workshop - UV Index	Munich, Germany	4-7 December

2001

ICNIRP Chairman's Meeting	Munich, Germany	24 January
CENELE/EC/ICNIRP Meeting	Luxembourg	30 March
Standing Committee IV Meeting	Paris, France	30-31 March
ICNIRP 9 th Annual Meeting	Stockholm, Sweden	9-14 May
Standing Committee II Meeting	Stockholm, Sweden	11-12 May
Standing Committee IV Meeting	Stockholm, Sweden	14-16 May
ICNIRP Meeting on EAS Devices	Rome, Italy	18-20 June
9 th Congress Eur. Soc. Photobiology	Lillehammer, Norway	3-8 September
8 th International Congress of EBEA	Helsinki, Finland	6-8 September
2 nd EuroSkin Conference	Orvieto, Italy	1-5 October
ICNIRP Meeting, MRI-Safety Issues	Verneuil, France	3-5 October
WHO UVR-Workshop	Orvieto, Italy	4-7 October
Standing Committee III Meeting	Orvieto, Italy	5-9 October
ICNIRP Scientific Meeting	Orvieto, Italy	8-10 October
WHO - Standards harmonisation	Seoul, South Korea	22-24 October
ICNIRP Chairman's Meeting	Munich, Germany	25 October

ICNIRP Chairman's Meeting	Munich, Germany	12 November
ICNIRP Meeting on EAS Devices	Munich, Germany	12-14 November
EU Meeting	Luxembourg	30 November
2002		
JRC Collaborative Action Meeting	Ispra, Italy	1 March
Standing Committee IV Meeting	Paris, France	7-9 March
Standing Committee I Meeting	Paris, France	11-12 March
ICNIRP Chairman's Meeting	Munich, Germany	14 March
COST 281/EBEA /WHO/ICNIRP	Rome, Italy	2-5 May
Standing Committee IV Meeting	Vancouver, Canada	7-9 May
ICNIRP 10 th Annual Meeting	Vancouver, Canada	6-9 May
EMF - New Technologies and Health	Slovenia	31 May
Int. Symp. Laser Biologic Effects	Paris, France	13-14 June
ICNIRP Chairman's Meeting	Munich, Germany	20 June
Standing Committee II Meeting	Paris, France	15 July
CSTEE Meeting	London, UK	20 August
EC-Chinese Delegation Meeting	Luxembourg	29-30 August
Standing Committee IV Meeting	Paris, France	2-4 September
3 rd Int.Conf. on EMF	Moscow, Russia	17-25 September
Symp. On EC Directive	Luxembourg	20 September
ICNIRP Chairman's Meeting	Munich, Germany	24 September
IRPA Meeting	Florence, Italy	8-11 October
2 nd Int. Workshop on EMFs	Rhodes, Greece	7-11 October
WHO/EC Meeting on EMF	Luxembourg	18 October
WHO Workshop on EMF Standards	Guilin, China	28 October – 1 November
Standing Committee I Meeting	San Francisco, USA	4-5 November
Light and Human Health	Orlando, USA	3- November
MRI Meeting	Munich, Germany	10-12 December

ICNIRP Chairman's Meeting	Munich, Germany	13 December
2003		
ICNIRP Biology Review Meeting	Munich, Germany	16-17 January
ICNIRP Physics Review Meeting	Munich, Germany	20-21 January
Precautionary Principle Meeting	Luxembourg	24-26 February
International Laser Safety Conference	Jacksonville, USA	10-13 March
Standing Committee IV Meeting	Vienna, Austria	19-22 March
NRPB/ICNIRP/WHO Int. Workshop	Chilton, UK	24-25 March
ICNIRP Chairman's Meeting	Chilton, UK	26 March
NIR Workshop Visit in Seville	Seville, Spain	4-5 April
ICNIRP Scientific Meeting	Rome, Italy	23-26 April
Standing Committee I Meeting	Florence, Italy	8-9 May
IEEE Int. Symp.on EMC	Istanbul, Turkey	11-16 May
ICNIRP Chairman's Meeting	Munich, Germany	19 May
ICNIRP/CENELEC/EC Meeting	Luxembourg	6 June
WHO, 8 th IAC Meeting WHO	Geneva, Switzerland	9-10 June
BEMS 25 th Annual Meeting	Maui, USA	22-25 June
ICNIRP Chairman's Meeting	Munich, Germany	22 July
ICNIRP 11 th Annual Meeting	Bordeaux, France	1 September
3 rd EuroSkin Conference	Stockholm, Sweden	16-19 September
WHO 3 rd International EMF Seminar	Guilin, China	13-17 October
Finnish Nat. Res. Programme	Helsinki, Finland	17 October
Meeting on Int. Prot. of Ecosystems	Venice, Italy	23-25 October
ICNIRP Chairman's Meeting	Munich, Germany	6-7 November
6 th Int.Cong. of the EBEA	Budapest, Hungary	13-15 November
COST 281 Workshop	Budapest, Hungary	15-16 November
EC Meeting on UVR Sunbeds	Madrid, Spain	25 November
Standing Committee IV Meeting	Paris, France	12-14 December

EC Consult. Group on Environment	Brussels, Belgium	18-19 December
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2004

EU Conf. Mobile Comms. and Health	Brussels, Belgium	20-21 January
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Asia-Pacific EMF Conf.	Bangkok, Thailand	26-30 January
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EC Directive Optical Radiation	Luxembourg	20 February
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NRPB/ICNIRP/WHO Int. Workshop	Chilton, UK	26-27 April
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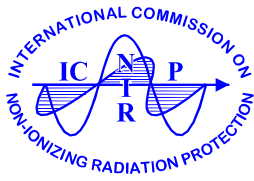
ICNIRP Chairman's Meeting	Chilton, UK	28 April
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Workshop on RF Dosimetry	Rockville, USA	11 May
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ICNIRP Scientific Meeting	Seville, Spain	17-19 May
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5 th International NIR Workshop	Seville, Spain	20-22 May
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IRPA-11 International Congress	Madrid, Spain	23-28 May
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ICNIRP

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ICNIRP Publications

ICNIRP 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.

Most ICNIRP statements and guidelines can be downloaded from ICNIRP's website (www.icnirp.org). ICNIRP books can be ordered at the following address:

SMI (Distribution Services) Limited

P.O. Box 119

Stevenage

Hertfordshire SG1 4TP

England

Tel: +44 1438 748111

Fax.: +44 1438 748844

enquire@smibooks.com

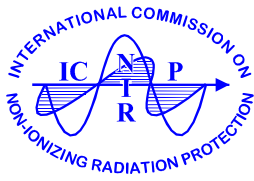
www.earthprint.com/icnirp

ICNIRP's publications broadly consist of:

- **Reviews of the published scientific literature.** 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.
- **Exposure 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".
- **Occupational Practical Guides.** These are produced by ICNIRP and address specific topics on occupational exposure to non-ionizing radiation. They are published by the International Labour Office in its "Occupational Safety and Health Series".
- **General Documents.** These are documents setting out general policy issues such as the basis for exposure guidelines and reviews of the science. These may also be published in Health Physics or as separate ICNIRP publications.
- **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.

Hitherto, ICNIRP exposure guidelines and statements have been reviewed through the members of the world-wide network of national IRPA-affiliated radiation protection societies. This process called on all reviews to be completed within a period of 90 days. Recently ICNIRP has extended this review process to include ICNIRP's International Partners in Non-Ionizing Radiation Protection. All comments received from such reviews are considered by ICNIRP in producing final publications.

For translations or any other use of ICNIRP publications, please contact the Secretariat (www.icnirp.org).



Publications: NIR in general

International Commission on Non-Ionizing Radiation Protection

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REVIEWS

Review of concepts, quantities, units and terminology for non-ionizing radiation protection. 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. R. Matthes, J.H. Bernhardt, A.F. McKinlay (eds.) International Commission on Non-Ionizing Radiation Protection, Munich, 2004. ISBN 3-934994-05-9.

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. R. Matthes, J.H. Bernhardt, A.F. McKinlay (eds.) International Commission on Non-Ionizing Radiation Protection 1999. ISBN 3-9804789-6-3.

IRPA Guidelines on protection against non-ionizing radiation, A.S. Duchêne, J.R.A. Lakey, M.H. Repacholi (eds.) Pergamon Press, Inc., Maxwell House, 1991, Fairview Park, Elmsford, New York 10523, USA. ISBN 0-08-036097-1.

STATEMENTS

General Approach to Protection against Non-Ionizing Radiation Protection. Health Physics 82 (4): 540-548; 2002. Available for download at www.icnirp.org.

PROCEEDINGS

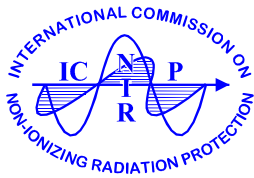
Non-Ionizing Radiation. CD-Proceedings of the 5th International Non-Ionizing Radiation Workshop, Seville, Spain, May 20-22, 2004. ICNIRP. International Commission on Non-Ionizing Radiation Protection, Munich, 2004. ISBN 3-93499404-0.

Non-Ionizing Radiation. Executive Summary of the 4th International Non-Ionizing Radiation Workshop Kyoto, Japan, May 22-25, 2000. R. Matthes, J.H. Bernhardt, M. Taki (eds.) International Commission on Non-Ionizing Radiation Protection 2000, ISBN 3-9804789-8-X.

Non-Ionizing Radiation. Proceedings of the 3rd International Non-Ionizing Radiation Workshop Baden (Vienna), Austria, April 22-26, 1996. R. Matthes, (ed.) International Commission on Non-Ionizing Radiation Protection 1996, ISBN 3-9804789-1-2.

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 Lab., Lower Plenty Road, Yallambie, Victoria, Australia. ISBN 0 7326 2370 3.



Publications: EMF

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REVIEWS

Review – Epidemiology of Health Effects of Radiofrequency Exposure. ICNIRP Standing Committee on Epidemiology: Anders Ahlbom, Adele Green, Leeka Kheifets, David Savitz and Anthony Swerdlow. *Environmental Health Perspectives*, 112 (17): 1741-1754; 2004. Available for download at www.icnirp.org.

Exposure to Static and Low Frequency Electromagnetic Fields, Biological Effects and Health Consequences (0-100 kHz)- Review of the Scientific Evidence and Health Consequences. J.H. Bernhardt, R., Matthes. A. McKinlay, P. Vecchia, B. Veyret (eds.) International Commission on Non-Ionizing Radiation Protection 2003, ISBN 3-934994-03-2.

Review of the epidemiological literature on EMF and health, ICNIRP Standing Committee on Epidemiology: Anders Ahlbom, Elisabeth Cardis, Adele Green, Martha Linet, David Savitz and Anthony Swerdlow. *Environmental Health Perspectives*, 109 Suppl. 6 (12): 911-934; 2001. Available for download at www.icnirp.org.

GUIDELINES

Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). *Health Physics* 74 (4): 494-522; 1998. Available for download at www.icnirp.org.

Guidelines on Limits of Exposure to Static Magnetic Fields. *Health Physics* 66 (1): 113-122; 1994.

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Medical Magnetic Resonance (MR) Procedures: Protection of Patients. *Health Physics* 87(2); 2004. Available for download at www.icnirp.org.

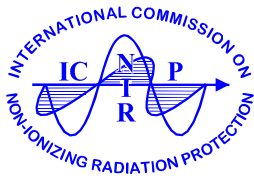
Statement related to the Use of Security and Similar Devices utilizing Electromagnetic Fields. *Health Physics* 87(2); 2004. Available for download at www.icnirp.org.

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. Available for download at www.icnirp.org

Health Issues Related to the Use of Hand-Held Radiotelephones and Base Transmitters. *Health Physics* 70 (4): 587-593; 1996. Available for download at www.icnirp.org.

Protection of the Patient Undergoing a Magnetic Resonance Examination. *Health Physics* 61 (6): 923-928; 1991. Available for download at www.icnirp.org.

Alleged Radiation Risks from Visual Display Units - A Statement. *Health Physics* 54 (2): 231-232; 1988. Available for download at www.icnirp.org.



Publications: EMF

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PROCEEDINGS

Pulsed Radiofrequency Field Exposure Health Consequences and Standards, Proceedings of the International Seminar on Pulsed Radiofrequency Field Exposure Health Consequences and Standards, 21 to 27 November 1999, Erice, Italy. R. Matthes, J.H. Bernhardt, M. H. Repacholi (eds.) International Commission on Non-Ionizing Radiation Protection 2001, 3-934994-00-8.

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, R. Matthes, J.H. Bernhardt, M. H. Repacholi (eds.) International Commission on Non-Ionizing Radiation Protection 1999, ISBN 3-9804789-9-8.

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, R. Matthes, E. van Rongen, M. H. Repacholi (eds.) International Commission on Non-Ionizing Radiation Protection 1999, ISBN 3-9804789-7-1.

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, R. Matthes, J.H. Bernhardt, M. H. Repacholi (eds.) International Commission on Non-Ionizing Radiation Protection 1998, ISBN 3-9804789-4-7.

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, R. Matthes, J.H. Bernhardt, M. H. Repacholi (eds.) International Commission on Non-Ionizing Radiation Protection 1997, ISBN 3-9804789-3-9.

Non-Thermal Effects of RF Electromagnetic Fields, Proceedings of the International Seminar on Biological Effects of RF Electromagnetic Fields and Related Health Risks, Munich, Germany, November 20-21, 1996, J.H. Bernhardt, R. Matthes, M. H. Repacholi (eds.) International Commission on Non-Ionizing Radiation Protection 1997, ISBN 3-9804789-2-0.

REPORT TO THE EUROPEAN COMMISSION

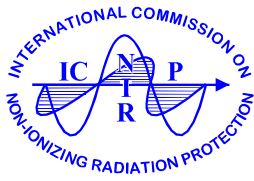
Possible Health Risks to the General Public from the Use of Security and Similar Devices. J.H. Bernhardt, A. McKinlay, R. Matthes (eds.), International Commission on Non-Ionizing Radiation Protection 12/2002. ISBN 3-934994-01-6.

Executive Summary: Possible Health Risks to the General Public from the Use of Security and Similar Devices. J.H. Bernhardt, A. McKinlay, R. Matthes (eds.), International Commission on Non-Ionizing Radiation Protection 2002. ISBN 3-934994-02-4. Available for download at www.icnirp.org.

JOINT PUBLICATIONS

with the National Radiological Protection Board and the World Health Organization

Effects of Static Magnetic Fields Relevant to Human Health. Proceedings of an International Workshop, NRPB, Chilton, UK, April 26-27, 2004. AF McKinlay, MH Repacholi, D Noble (eds.) Progress in Biophysics & Molecular Biology. An International Review Journal, Elsevier, Vol 87 (2-3), February/April 2005. ISSN 0079-6107.



Publications: EMF

International Commission on Non-Ionizing Radiation Protection

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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.

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.

with the International Labour Organization

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

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

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

with the United Nations Environment Programme and the World Health Organization

Environmental Health Criteria 137 (1993): Electromagnetic Fields (300 Hz to 300 GHz), WHO, Geneva, Switzerland, ISBN 92-4-157137-3.

Environmental Health Criteria 69 (1987): Magnetic Fields, WHO, Geneva, Switzerland, ISBN 92-4-154269-1.

Environmental Health Criteria 35 (1984): Extremely Low Frequency (ELF) Fields, WHO, Geneva, Switzerland, ISBN 92-4-154095-8.



Publications: Optical

International Commission on Non-Ionizing Radiation Protection

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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); 2004. Available for download at www.icnirp.org.

Revision of the Guidelines on Limits of Exposure to Laser radiation of wavelengths between 400 nm and 1.4 μm . Health Physics Vol. 79, No 4: 431-440; 2000. Available for download at www.icnirp.org.

Guidelines on Limits of Exposure to Broad-Band Incoherent Optical Radiation (0.38 to 3 μm). Health Physics Vol. 73, No 3: 539-554; 1997. Available for download at www.icnirp.org

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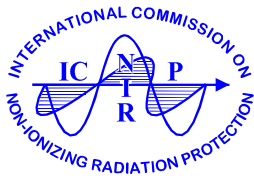
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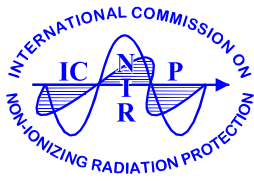
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