

DECLARATION OF PERSONAL INTERESTS

POLICY

It is ICNIRP's aim to provide guidance and recommendations on protection from non-ionizing radiation exposure based on thorough professional evaluation of the published scientific literature. To achieve this goal, ICNIRP relies on the scientific knowledge and judgment of independent experts. For ICNIRP it is imperative to avoid that personal interests of its members affect the independence of ICNIRP's guidance. In this view, the ICNIRP Commission and Scientific Expert Group (SEG) members are asked to declare any personal interests in relation to the activities of ICNIRP.

The declaration of interests is to be completed at the time of acceptance of nomination for an election, updated after election, annually, and each time a change of personal interest occurs. The declarations of personal interests are requested from all:

- candidates to an ICNIRP position;
- ICNIRP Commission members;
- ICNIRP SEG members.

Upon completion and signature, the declaration is to be sent electronically to Dr Gunde Ziegelberger, ICNIRP Scientific Secretary at g.ziegelberger@icnirp.org.

Declarations of all elected members of ICNIRP and its SEG will be posted on the ICNIRP website. All publications of ICNIRP shall contain an acknowledgement with regard to the online availability of the declaration of personal interests.

The declarations are evaluated by the Commission. If there is any conflict of interest, the Commission decides in accordance with the ICNIRP provisions entailed in the Charter and Statutes (see below), about the action required. The general principle of ICNIRP's approach is that neither the personal, nor the professional life, of its members should depend on NIR-relevant commercial entities or any other NIR interest groups. It is recognized that scientific expertise implies a wide range of professional and academic experiences and activities, called personal interests, which however do not per se automatically lead to a conflict. The evaluation of personal integrity is very complex and might be difficult to achieve to the satisfaction of all parties. It is the responsibility of the ICNIRP Board and Commission to carefully consider and decide if the declared interests potentially constitute a conflict of interest.

As per the ICNIRP Statutes, "no member of the Commission shall hold a position of employment that in the opinion of the Commission will compromise its scientific independence. (...) When a change occurs in a member's employment which, in the opinion of the Commission members, may compromise the Commission's scientific independence, the Commission shall decide whether this member can continue to serve". The Commission decision shall be taken by a simple majority vote, either by a formal letter ballot, at a special Commission meeting called for that purpose, or at its Annual General Meeting (ICNIRP Statutes, §6(2)).

Where an elected member's declaration of interest has been evaluated and ICNIRP has concluded that it does not represent a conflict of interest, the reasons for ICNIRP's determination are provided below.

DECLARATION OF PERSONAL INTERESTS 2020



LAST NAME, First name: STUCK, Bruce	POSITION WITHIN ICNIRP (SEG or Commission Member, incl. nominee): SEG
<p>ACTIVITIES AND ASSETS relating to the years 2017-2021</p> <p>Please report activities, relationships and assets below, including any current application or negotiation for future activities, relationships and assets, as well as anything else that could be perceived as potentially representing a conflict of interest in relation to the activities of ICNIRP.</p> <p>Always mention the title of the activity, function, asset listed, and the name of company, organization, or institution involved.</p>	
EMPLOYMENT	
<p>Employer(s), function, title: Retired since 2012 from Army Medical Research. Since 2012, a part-time, independent Consultant on Non-ionizing radiation bioeffects. Title: Optical Radiation Biophysicist. Address: 23106 Osprey Ridge, San Antonio, TX 78260, USA</p> <p style="text-align: right;">Period: 2017-2021</p>	
UNPAID CONSULTANCY, ADVISORY POSITIONS AND SERVICES	
<p><i>These include unpaid consultancy and service as a scientific or other advisor for any commercial or non-commercial organization with an interest in NIR (including membership in scientific councils, associations, etc.) or as part of a regulatory, legislative or judicial process concerning NIR.</i></p> <p>Not applicable <input type="checkbox"/></p> <p>If applicable:</p> <p>Name and description of the activity: American National Standards Institute’s (ANSI) Accredited Standards Committee Z136 (ASC Z136 on the Safe Use of Lasers. As a part of ASC Z136 I am member of the following 5 Standards Subcommittees (SSCs) – SSC1 on the Safe Use of Lasers, SSC3 on Safe use of lasers in Health Care, SSC4 on Measurements and Instrumentation, SSC5 on safe use of lasers in educational institutions, SSC7 on eyewear and barriers. I am a member of 3 Technical Subcommittees (TSCs) - TSC1 on Laser Bioeffects and Medical Surveillance (past chair), TSC4 on laser control measures, and TSC7 on hazard analysis and applications. I am a member of the Laser Institute of America (LIA) and have served on the editorial board for the J of Laser Applications. I am a member of the Association for Research in Vision and Ophthalmology (ARVO) and the Biomedical Optical Society of the SPIE. Activities with these organization includes manuscript review and assistance with symposia and conferences. I am a member of the American Conference of Governmental and Industrial Hygienists Physical Agents Committee (ACGIH-PAC) where I assist ACGIH in the review and update of ACGIH Threshold Limit Values (TLVs) for non-ionizing radiation. All activities are unpaid and require an appointment to serve. ACGIH supports travel and per diem to the two PAC meetings each year. Since COVID-19, PAC meetings are virtual via Zoom.</p> <p style="text-align: right;">Period: 2015-2020</p> <p>Personal advantages (specify): These appointments require review of technical literature on the biological effects of non-ionizing radiation and translate this knowledge base to useable, science based, and harmonized (where possible) non-ionizing radiation protection exposure limits. The perspective garnered from interactions with a broad, diverse group of radiation effects and protection professionals provides a valued perspective to address ICNIRP radiation protection issues.</p>	

DECLARATION OF PERSONAL INTERESTS 2020



Conversely, since many radiation protection guidelines are based on past ICNIRP guidance, it is beneficial to communicate ICNIRP guidance and promote harmonization of both the rationale for and harmonization of non-ionizing radiation exposure limits.

PAID CONSULTANCY, ADVISORY POSITIONS AND SERVICES

These include paid consultancy and service as a scientific or other advisor for any commercial or non-commercial organization with an interest in NIR (including membership in scientific councils, associations, etc.) or as part of a regulatory, legislative or judicial process concerning NIR.

Not applicable

If applicable:

Name and description of the activity: Consultant to Perfect Lens, LLC on a proprietary project under a signed confidentiality agreement to provide advice and written assessment on biological exposure limits as applied to their repetitively pulsed femtosecond laser application for use in medical application in the eye. Deliverables include oral and written reports on the device hazard assessments. **Period:** 2017-2021

Name and status of the contractor: Perfect Lens, LLC., 1778 Parc Circle, Ste B, Irvine, CA 92614. Status: Completed July 27, 2018 with the provision that the consultancy agreement would be held open in 2019 (or longer?) pending further requirements from the company.

Income (percentage of yearly laboratory/working group/personal income): The consultancy was officially completed in January 2020. This was < 1% of personal income from my retirement annuity during 2019 tax year.

RESEARCH SUPPORT RECEIVED FROM COMMERCIAL ENTITIES

These are research support, grants, collaborations, sponsorships, other funding and in-kind support valued at more than EUR 1000 overall (including equipment, facilities, staff, paid travel to meetings, etc.).

Not applicable

If applicable:

Name and description of the activity: **Period:**

Name and status of the contractor:

Unit receiving and managing the research funding from the above activity (University/Unit/Laboratory/Personal Research Fund/Other):

DECLARATION OF PERSONAL INTERESTS 2020



Income (percentage of yearly laboratory/unit/personal income):

Are you free to publish whatever results your research shows without the influence from the entity funding your research?

Yes Please specify the wording used in the contract:

No Please describe how your independence is safeguarded:

INVESTMENTS AND COMMERCIAL INTERESTS

Investment and commercial interests mean investments in a commercial entity, in a trust or holding company. This includes any commercial business interests (e.g., proprietorships, partnerships, joint ventures) and indirect investments such as a trust or holding company, stocks, bonds, stock options, or other securities. Broadly diversified mutual funds, pension funds or similar investments that are broadly diversified and on which the member does not exercise control are excluded. Members shall declare any current, past or planned investments and commercial interests they hold in the NIR area, when such an interest is valued at more than EUR 1000.

Not applicable

If applicable:

Name of the investment/share: My investments are in a Charles Schwab Intelligent Portfolio Account that includes stocks, bonds, a mutual fund component and other securities. The portfolio includes no investments that are known to be directly related to non-ionizing radiation. Period: 2018-2020

Income (as a percentage of yearly personal income): No income taken from this account in 2019 or 2020.

INTELLECTUAL PROPERTY

Intellectual property is patents, trademarks and copyrights (also pending applications) and proprietary know-how in a substance, technology or process.

Not applicable

If applicable:

Designation of the property:

Period:

Income (as a percentage of yearly personal income):

DECLARATION OF PERSONAL INTERESTS 2020



ADDITIONAL INFORMATION*

This includes information concerning the interests of a person with whom the member has personal or professional ties (such as a family member or close colleague) when that person's interests (professional activities or financial engagements in the NIR area) may be impacted positively or negatively by the work of ICNIRP.

To your knowledge, would the outcome of your activities within ICNIRP benefit or adversely affect interests of others* with whom you have substantial common personal, financial or professional interests (such as family members or colleagues)?

Yes Please provide a description of the others' interests that are potentially affected by your ICNIRP activities: The outcome of ICNIRP activities provide no personal or financial benefits nor do they adversely affect my other activities or those of my spouse, adult children or my sibling. Period: 2018-2021

No

Is there any other aspect of your personal background or present circumstances not addressed above that might be perceived as affecting your objectivity or independence?

Yes Please provide a description of the other aspects that are potentially affecting your objectivity or independence: My interests in science-based and harmonized non-ionizing radiation protection guidelines are affected by ICNIRP discussions and outcomes. However, they do not affect my independence or objectivity in recommending science-based exposure limits. Updates to optical and radio frequency radiation guidelines do impact non-ionizing radiation hazard and safety assessments worldwide since many guidelines are anchored to the ICNIRP Guidelines. Period: 2018-2021

No

I hereby declare that the disclosed information is true and complete to the best of my knowledge. Should there be any change to the above information, I will promptly notify the ICNIRP Secretariat and complete a new declaration of interests which takes the changes into account.

I hereby provide my consent that my declaration of interest will be made available publicly via the ICNIRP website as per the condition stated under "policy".

Date: **November 12, 2020**

Name: **Bruce E. Stuck**

Signature:

Signature Covered by ICNIRP
Signature Covered by ICNIRP
Signature Covered by ICNIRP

* Information provided here may be protected by privacy rights. ICNIRP will anonymize this field before DOI disclosure.

COMMENTS FROM ICNIRP ON THIS DECLARATION OF INTERESTS:

As the income generated by Dr Stuck's advisory activity represents only a small proportion of the person's income ICNIRP does not consider that this represents a conflict of interest. Approved.