

NCRP Presentation to ICRP's Main Commission



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**Jerrold Bushberg
NCRP Senior Vice President**

**ICRP Symposium
on the International System
of Radiological Protection**

**October 24-26, 2011
Bethesda, Maryland**

Recent NCRP Publications

Reports (2010 & 2011)



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- **170: *Second Cancers and Cardiovascular Effects After Radiotherapy***

-L.B. Travis, Chair

J.D. Boice, Jr., Vice Chair

- **169: *Design of Effective Effluent Monitoring and Environmental Surveillance Programs***

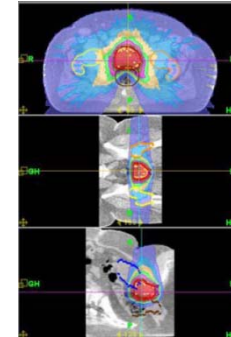
- Bernd Kahn, Chair

- **168: *Radiation Dose Management for Fluoroscopically-Guided Interventional Medical Procedures***

-Stephen Balter, Chair

Beth A. Schueler, Vice Chair

Donald L. Miller, Vice Chair



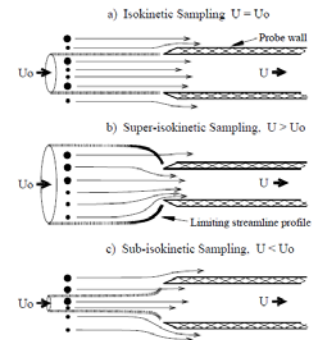
NCRP REPORT No. 170

SECOND CANCERS AND
CARDIOVASCULAR EFFECTS
AFTER RADIOTHERAPY



NCRP REPORT No. 169

DESIGN OF EFFECTIVE
RADIOLOGICAL EFFLUENT
MONITORING AND
ENVIRONMENTAL
SURVEILLANCE PROGRAMS



NCRP REPORT No. 168

RADIATION DOSE
MANAGEMENT FOR
FLUOROSCOPICALLY-
GUIDED INTERVENTIONAL
MEDICAL PROCEDURES



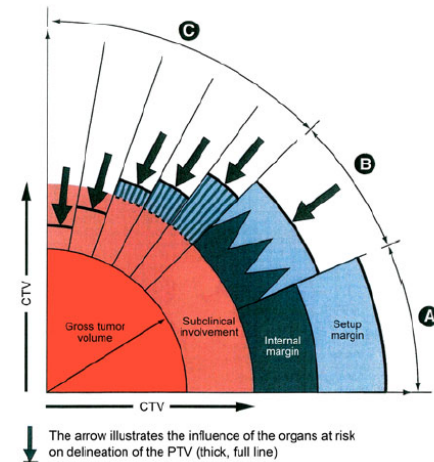
Recent NCRP Publications

Reports (2010 & 2011)



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- 167: *Potential Impact of Individual Genetic Susceptibility and Previous Radiation Exposure on Radiation Risk for Astronauts*
 - Co-Chairman
 - Antone L. Brooks & William F. Morgan



- 166: *Population Monitoring and Radionuclide Decorporation Following a Radiological or Nuclear Incident*

-Richard J. Vetter, Chair

68 / 7. CLINICAL DECISION GUIDE: CONCEPT AND USE

number of exposed persons and the extent of life-threatening injuries). For example, a physician may choose to use 1 CDG as a basis for treatment or as a screening level indicating the need for a more detailed investigation of tissue-specific absorbed doses over different time periods.

The CDG is not intended to instruct physicians on a specific course of action. Rather, CDGs are intended as a tool to be used to help a physician determine when a radionuclide intake may have clinical significance.

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Reports (2010 & 2011)



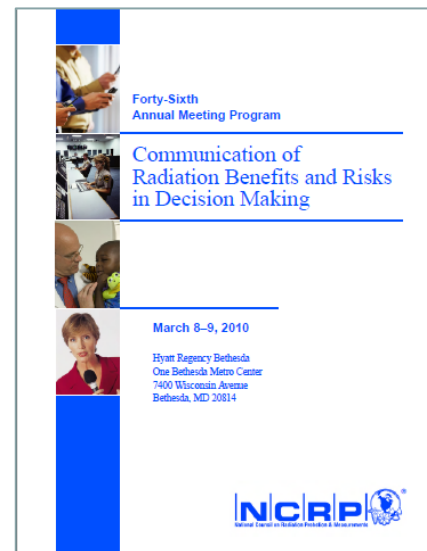
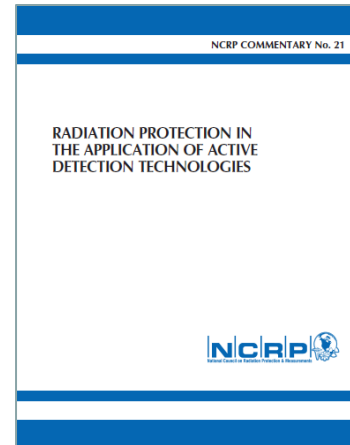
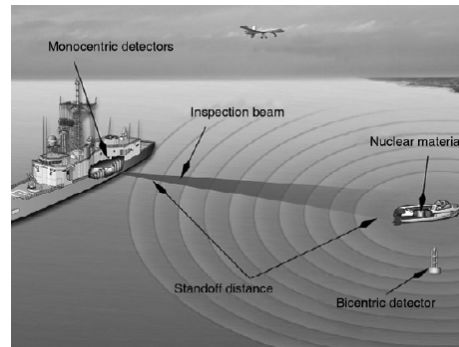
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- Commentary No. 21: *Radiation Protection in the Application of Active Detection Technologies*

-Kenneth L. Miller, Chair

- 2010 Annual Meeting: *Communication of Radiation Benefits and Risk in Decision Making* [(Health Physics 101(5): 497-600 (2011))]

-Paul A. Locke, Chair



Current NCRP Activities

Forthcoming NCRP publications (2012):

- Report on *Adverse Effects of Radiation on the Gonads, Embryo and Fetus (SC4-4)*

➤ **Supersedes:** **-Robert Brent, Chair**

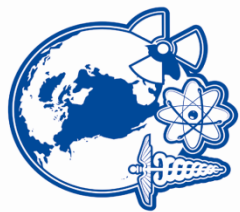
–1977 NCRP Report 54

Medical Radiation Exposure of Pregnant and Potentially Pregnant Women

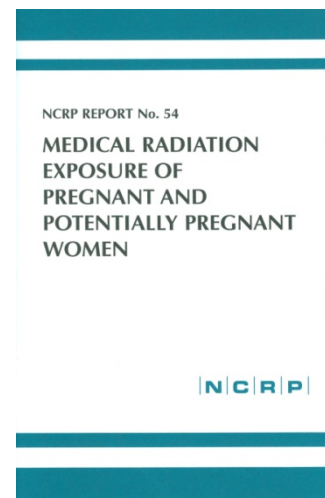
–1994 Commentary No. 9

Considerations Regarding the Unintended Radiation Exposure of the Embryo, Fetus or Nursing Child

- Includes ionizing and non-ionizing (US/RF/Magnetic Fields-MRI)
- Birth defects, developmental abnormalities and cancer risk
- Dose to embryo/fetus from medical imaging procedures (Diagnostic Radiology & Nuclear Medicine)
- Effective methods of communicating the risks & responding to FAQs from patients

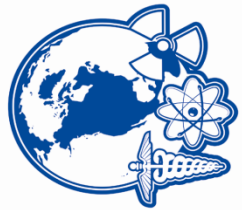


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Current NCRP Activities

Forthcoming NCRP publications (2012):



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- Report on *Uncertainties in the Estimation of Radiation Risk and Probability of Disease Causation (SC 1-16)* -R. Julian Preston, Chair
- Report on *Diagnostic Reference Levels in Medical and Dental Imaging: Recommendations for Applications in the United States (SC4-3)* -James Brink, Chair
- Proceedings of 2011 NCRP Annual Meeting on *Scientific and Policy Challenges of Particle Radiations in Medical Therapy and Space Missions* -Kathryn D. Held, Chair
(to be published in *Health Physics* in 2012)

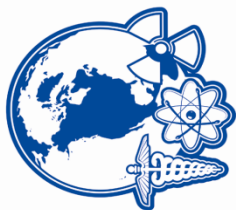
Forty-Seventh
Annual Meeting Program

Scientific and Policy Challenges
of Particle Radiations in Medical
Therapy and Space Missions

March 7-8, 2011

Hyatt Regency Bethesda
One Bethesda Metro Center
7400 Wisconsin Avenue
Bethesda, MD 20814

ICRP Designated an NCRP Special Liaison Organization



NCRP



National Council on Radiation Protection and Measurements

President: Thomas S. Tenforde, Senior Vice President: Harvath R. Kase, Executive Director: David A. Schauer
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<http://www.nrcp.org> <http://nrcp.org/publications>



INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION

Dr. Thomas S. Tenforde
President
National Council on Radiation Protection and Measurement
7910 Woodmont Avenue, Suite 400

Our ref.: 90/015/09

NCRP Special Liaison Organization status for ICRP

Dear Dr. Tenforde:

On behalf of the International Commission on Radiological Protection (ICRP), I would like to request that ICRP be designated an NCRP Special Liaison Organisation. Although it is very important that our organizations remain independent from undue influence, independence is not isolation. There is no doubt that our organizations have many interests in common, and would both benefit from this affiliation.

reports or articles in which they have special expertise. These reviews, in addition to those provided by the 100 members of NCRP's Council, are the basis of our rigorous peer review system that ensures the high quality of NCRP reports on topics related to radiation health protection and measurements. I will rely on the ICRP as a valuable resource in providing critical reviews of draft NCRP reports related to radiation health protection. Please provide Laura Atwell with details on where these reports should be sent (name of individual and email address). Ms. Atwell can be reached at 301-657-2652 ext. 18 or by email at atwell@nrcponline.org.

Again, I would like to welcome the International Commission on Radiological Protection as one of the NCRP's Special Liaison Organizations, and we look forward to interacting with you.

Sincerely yours,

Thomas S. Tenforde
Thomas S. Tenforde
President

A non-government,
not-for-profit,
congressionally chartered,
public service organization

cc: Dr. David A. Schauer

TST/lja



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Scientific Secretary
International Commission on Radiological Protection
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Planned NCRP Activities & Opportunities for Collaboration with ICRP



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- Activities are planned to address the following:
 - *Commentary on A Multiplatform National Program for Providing Guidance on Integrating Basic Science and Epidemiology Studies on Low-Dose Radiation Health Effects*
 - *integration of results of basic science studies, including biomarkers of cancer and other diseases, with new epidemiology studies on health effects of low-dose radiation exposures*
 - *Approach to Optimizing Decision Making in Late-Phase Recovery from Nuclear or Radiological Terrorism Incidents*

Scientific Committee 5-1, “Approach to Optimizing Decision Making for Late-Phase Recovery from Nuclear or Radiological Terrorism Incidents”



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➤ *About Committee SC 5-1 (S.Y. Chen, Chair)*

- Constituted 06/2010
- Experts in diverse disciplines
- Draft for comment by 12/2012
- Final issued by 06/2013

➤ *Address late-phase optimization decision making for long-term recovery*

- Policy Issues
- Remediation Technology
- Waste Management
- Cost/Benefit Analysis
- Managing Community Expectations & Psychological Impacts
- Stakeholder Involvement

➤ *Integrate lessons learned from Fukushima NPP disaster*



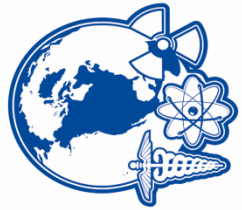
Objectives & Benefits of Collaboration



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- **Maintain independence -- but promote harmonization whenever possible**
 - Minimize confusion and improve public communications and trust
 - Be able to articulate differences of opinion, approach or objective
- **Avoid unnecessary duplication of effort**
- **ICRP committee members have served on many NCRP scientific committees**
- **Share draft publications**

NCRP 2012 Annual Meeting



➤ *Emerging Issues in Radiation Protection: Medical, Fuel Cycle and Emergency Response*

Richard Toohey, Program Committee Chair

- Update on medical radiation exposure issues
 - safety culture in radiation oncology
 - patient protection in interventional radiology
 - standardization of nomenclature and protocols in CT
- Fukushima accident
 - Environmental and community impacts
 - Lessons learned & guidance for developing community resilience
 - Invited speaker from CDC, NNSA and others

March 12-13, 2012 -- Bethesda Hyatt Hotel

Register online at: <http://ncrp.eventbee.com>

NCRP Publications



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- NCRP reports and current activities are described online at <http://NCRPonline.org>
- Publications can be purchased online at <http://NCRPpublications.org>
- Institutional license agreements are now available through:
 - **Knovel** (<http://www.Knovel.com>)
 - **EBSCO/NetLibrary** (<http://www.NetLibrary.com>)
 - **ProQuest/ebrary** (<http://www.ebrary.com>).



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**Thank You
For Your Attention**