NCRP Presentation to ICRP’s Main Commission

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)

- **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
Recent NCRP Publications
Reports (2010 & 2011)

- **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 Decoration Following a Radiological or Nuclear Incident
  - Richard J. Vetter, Chair

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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.
Recent NCRP Publications
Reports (2010 & 2011)

- Commentary No. 21: Radiation Protection in the Application of Active Detection Technologies
  -Kenneth L. Miller, Chair

  -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 medial imaging procedures (Diagnostic Radiology & Nuclear Medicine)
• Effective methods of communicating the risks & responding to FAQs from patients
Current NCRP Activities

Forthcoming NCRP publications (2012):


– 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)
ICRP Designated an NCRP Special Liaison Organization

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.

Sincerely yours,

Thomas S. Tenforde
President

cc: Dr. David A. Ichwaer
TST/la

Christopher Clement, CHP
Scientific Secretary
International Commission on Radiological Protection

http://ICRPpublication.org

NCRP Special Liaison Organization status for ICRP
Planned NCRP Activities & Opportunities for Collaboration with ICRP

- 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”

➢ 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

- 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](http://ncrp.eventbee.com)
NCRP Publications

- 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:
  - ProQuest/ebrary (http://www.ebrary.com).
Thank You
For Your Attention