

Master List of Key Words
(Revised 6 December 2007)

Notes:

The information in italics is for your reference only, do not include it in the key word list.

Key words are capitalized only when used as a proper noun.

Elements are alphabetized by element name, not by symbol.

A

academic guidelines
accelerator
accelerator, decommissioned
accelerator, medical
accident analysis
accident, handling
accident, management
accident, nuclear
accident, power reactor
accident, reactor
accident, transport
actinides
activity-weighted size distributions
adaptive response
adsorption
aerosols
agriculture
air sampling
algae
as low as reasonably achievable (ALARA)
algorithm
alpha particle(s)
²⁴¹Am americium
analysis, cost-benefit *see cost-benefit analysis*
analysis, risk *see risk analysis*
analysis, statistical
annual limit on intake
apoptotic, apoptosis
aquatic

aquatic organisms
atmospheric testing
atmospheric radioactivity
atomic bomb
atomic bomb survivors *see survivors, atomic bomb; Hiroshima; Nagasaki*
attenuation
Auger processes
autoradiography

B

¹⁰B
bacteria
beam
below regulatory concern *see De Minimis regulations*
beta particle(s)
bioaccumulation factor
bioassay
biodegradation
biokinetics
biological indicator
biological effect
biological medium
biostatistic
²⁰⁶Bi bismuth
²⁰⁷Bi bismuth
blood
bone implant
bone marrow
bone surface
bones, human *see skeleton*
book reviews *see reviews*
boron
brachytherapy
bragg curve
breast
breast feeding
bremsstrahlung
bystander effect

C

Ca-DTPA *see chelation*
calcium

calibration
²⁵²Cf californium
Canada
cancer
carbon, activated
¹²C carbon
¹⁴C carbon
carcinogenesis
cathode ray tube
cell culture
cellular phone
Cerenkov
cesium
¹³⁴Cs cesium
¹³⁷Cs cesium
charcoal canister
charcoal filter
chelation *see Ca-DTPA, Zn-DTPA*
chemical exposure
chemical toxicity
chemotherapy
Chernobyl
children
chromosome aberration
chronic exposure
cigarette
clearance
clinical target volume, CTV
CN-85
coal *see fly ash; power plant, coal-burning*
⁵⁸Co cobalt
⁶⁰Co cobalt
complexation
computed tomography
computer calculation
computer
conductivity, radiation-induced
conformational radiotherapy, CRT
constraint
contamination
contamination, environmental
contamination, external
contamination, internal
correction factors

corrections *see errata*
cost-benefit analysis *see analysis, cost-benefit*
cosmic radiation
countermeasure
counting efficiency
CR-39
curium
curriculum
cyberknife
cyclotron
cytogenetic

D

database
de minimis regulations *see below regulatory concern*
decay chain
decay products
decommissioning
decontamination *see radioactivity, removal of*
decorporation
deer
dental
detection limit
detector
detector, alpha-track
detector, bubble
detector, fission-track
detector, dielectric-track
detector, etched-track
detector, Fricke
detector, gel
detector, germanium
detector, nuclear-track
detector, phoswich
detector, radiation
detector, scintillation
detector, silicon
detector, thermoluminescent
diagnostic imaging *see imaging; mammography*
diagnostic radiology
diet
diffusion

discharge limit
dismantling, *waste, technology, management*
DNA
dogs
dose
dose assessment
dose commitment
dose equivalent
dose equivalent, effective
dose equivalent, effective collective
dose, absorbed
dose, bone
dose, collective
dose, external
dose, internal
dose limit
dose, low
dose, organ
dose, patient
dose, population
dose rate
dose, scattered
dose, skin
dosimeter
dosimetry
dosimetry, 3D
dosimetry, alpha
dosimetry, beta
dosimetry, calibration
dosimetry, chemical
dosimetry, error
dosimetry, gamma
dosimetry, internal
dosimetry, external
dosimetry, micro-
dosimetry, neutron
dosimetry, occupational
dosimetry, personnel
dosimetry, population
dosimetry, solid-state
dosimetry, thermoluminescent
DPUI
DS86
DTPA *see chelation*
dwelling

E

education
education, health physics
effluent
effective dose
electrets
electromagnetic field *see radiation, nonionizing*
electrons
electron storage ring
electrostatic field
emergency, radiological
emergency planning
emission, atmospheric *see radioactivity, airborne*
energy transfer
energy expenditure
environmental assessment
environmental impact
environmental transport *see nutrition pathways; food chain*
environ, terrestrial
epidemiology
equilibrium factor
equivalent uniform dose, EUD
ergonomy
ethics *see professional ethics*
¹⁵²**Eu** *europium*
excretion, fecal
excretion, urinary
exhalation rate
exposure, acute
exposure, chronic
exposure, cumulative
exposure, external
exposure, internal
exposure, occupational *see nuclear workers and hospital workers*
exposure, personnel
exposure, population
exposure, potential
exposure, prenatal
exposure, radiation
exposure, radiofrequency
extrapolation

extremities

F

Fading

fallout

film badge

fingers

fission

fission products

fluoroscopy

food chain *see nutrition pathways; transport, environmental*

fly ash *see coal; power plant, coal-burning*

France

fuel *nuclear*

fusion

G

Gammaknife

gamma radiation

gating

gastrointestinal tract

generation IV

genetic effect, radiation *see health effects*

genomic instability

geology

gonads

graft

gross target volume, GTV

groundwater

guidelines

H

harmonization

health effect *see genetic effects, radiation; Nagasaki; Hiroshima; radiation effects*

health impact

hematopoietic system

Hiroshima *see atomic bomb survivors; health effects*

historical profile

hormesis, radiation

hospital worker

hot particle

human organ

humidity, relative

hydrogen

hygiene, industrial

I

ICP-MS

IDEAS

imaging *see x-ray imaging; magnetic resonance imaging; diagnostic imaging; mammography*

incident

incineration

indoor radon

induced current

industrial hygiene

ingestion

inhalation

injection

insects

instrumentation

instruments

intake, radionuclide

internal dose

internal margin, IM

internal target volume, ITV

International Atomic Energy Agency (IAEA)

International Commission on Non Ionizing Radiation Protection (ICNIRP)

International Commission on Radiological Protection (ICRP)

International Commission on Radiation Units and Measurements (ICRU)

International Radiation Protection Association *see abstracts*

international system of units *see units, SI; SI units*

internet

iodine

¹²⁵I *iodine*

¹²⁹I *iodine*

¹³¹I *iodine*
ionization chamber
¹⁹²Ir *iridium*
iron
isotope

J

K

Kd
kidney(s)
kinetic
krypton

L

laboratory animal
labyrinth accelerator
lactation
lasers
lead
²¹⁰Pb *lead*
²¹²Pb *lead*
²¹⁴Pb *lead*
leukemia
lineal energy
linear hypothesis
linear no threshold
liquid scintillation
liquid scintillation cocktail *see*
waste, low-level
lithium
litigation
low doses
luminescence
luminous painting
lungs, human
lungs, rodent

M

magnetic field
magnetic resonance imaging *see*
imaging; radiation, nonionizing
mammography *see* *imaging; x-ray*
imaging; diagnostic imaging
mapping

mass spectrometry
matrice
maximum contaminant level
maximum permissible
concentration
maximum permissible exposure
medical radiation *see* *radiation*
therapy; nuclear medicine
membrane
metabolism
metal, trace
mice
microdosimetry
microwaves *see* *radiation,*
nonionizing
milk
minimum detectable activity
mining, coal
mining, phosphate
mining, uranium
mixed field dosimetry
mixed oxide
modeling, biological factor
modeling, dose assessment
modeling, meteorological
monitoring, air
monitoring, environmental
monitoring, occupational
monitoring, personnel
monitors, radiation
monitors, radon
monitor, units
monkey
Monte Carlo
mortality
multichannel analyzer
multi-layers collimator, MLC

N

Nagasaki *see* *health effects; atomic*
bomb survivors
naturally occurring radionuclide
neoplasm *see* *tumor*
NEA (*Nuclear Energy Agency*)
nephron
neptunium

neutron activation
neutron convertor
neutron detection
neutron dosimetry
neutron fields
neutrons
nickel
nitrogen
NORM
normal tissue complication
 probability, NTCP
nuclear fuel cycle
nuclear medicine
nuclear power industry
nuclear power plant
nuclear reactor
nuclear war *see weapons; fallout*
nuclear weapon
nuclear worker *see exposure, occupational*
nutrition pathway *see transport, environmental, food chain*

O

occupational disease
occupational exposure
occupational safety
OHSAS
operational topic
optic *see radiation, nonionizing*
optimisation
OSL
ozone

P

packaging
partition coefficient
patient
patient protection
pediatric
peer review
pertechnetate
phantom
phantom, mathematical
pharmacokinetic
³²P *phosphorous*

photons
photosynthesis
physic, high-energy
physic, medical
physic, particle
pig
planning target volume, PTV
plant toxicity
plant uptake *see uptake, plant; food chain*

plasma

plutonium

²³⁷Pu *plutonium*

²³⁸Pu *plutonium*

²³⁹Pu *plutonium*

²⁴⁰Pu *plutonium*

²¹⁰Po *polonium*

²¹⁸Po *polonium*

positron emission tomography
(PET)

positron

potassium

⁴⁰K *potassium*

potassium iodate

potassium iodide *see thyroid*

potential alpha energy
concentration

power plant, coal-burning *see coal; fly ash*

power plant, nuclear

pregnancy

preventive, medicine

professional ethic *see ethic*

¹⁴⁷Pm *promethium*

proportional counters

proton

public information

Q

qualified expert

quality assurance

quality factor

R

radiation damage

radiation dose

radiation effect *see health effect*

radiation monitor

radiation protection

radiation risk

radiation therapy *see medical radiation; nuclear medicine*

radiation, alpha

radiation, atmospheric

radiation, background

radiation, beta

radiation, biology

radiation, cosmic

radiation, ionizing

radiation, gamma

radiation, low-level

radiation, medical *see imaging; nuclear medicine*

radiation, non-ionizing *see electron spin resonance; electromagnetic fields; lasers; microwaves; optics; ultraviolet radiation; ultrasound*

radiation, technological enhancement

radioactive material

radioactivity

radioactivity, airborne *see emissions, atmospheric*

radioactivity, environmental

radioactivity, indoor

radioactivity, natural

radioactivity, removal of *see decontamination*

radioactivity, residual

radiobiology

radioecology

radiofrequency

radiography

radiography, industrial

radioimmunotherapy

radioisotope

radiological sensitivity

radiology

radionuclides (used when the number of radionuclide overpasses 3 or 4)

radiopharmaceutical

radioprotectors

radiotherapy

radium

radium dial painters

²²⁴Ra radium

²²⁶Ra radium

²²⁸Ra radium

radon

radon progeny

²²⁰Rn radon

²²²Rn radon

²²²Rn, indoor radon

rat

reactor, nuclear

reactor, research

recommendations

recovery *see repair*

recycling

reference man

regional blood volume

regression

regulation

regulatory guide

relative biological effectiveness

remedial action

remmeter, andersson, braun *see monitors, radiation; detector, radiation*

repair, cellular

respiratory system

reviews *see software reviews; book reviews*

Rhone river

risk analysis *see analysis, risk*

risk assessment

risk communication

risk estimates

ruthenium

S

safety standard

sampling

scaling

scanning

scattering

scintillation chamber
screen, x-ray
screening measurement
seawater
sediment
⁷⁵Se selenium
sensitivity factor
SFRP (*Société Française de Radioprotection*)
shielding
silicon detector
SI unit *see international system of units; units, SI*
SIMS
simulation
skeleton
skin
skin dose
social impact
software review *see review; computer*
soil
soil-to-plant transfer
sources
speciation
species comparison
spectrometry, alpha
spectrometry, gamma
spectrometry, neutron
spectrometry, X rays
spectroscopy, alpha
spectroscopy, gamma
spectroscopy, fluorescence
spent fuel
stakeholder
standard
statistics
stem cells
⁸⁵Sr strontium
⁹⁰Sr strontium
³⁵S sulfur
sulfur dioxide
surface contamination
survey meter
survey

survivor, atomic bomb *see atomic bomb survivors; Hiroshima; Nagasaki*
sustainable
synchrotron

T

tailings, uranium
technetium
⁹⁹Tc technetium
^{99m}Tc technetium
¹²⁴Te tellurium
TENORM
terrestrial animal
terrorism
²⁰¹Tl thallium
thermoluminescence dosimetry
thorium
²³⁰Th thorium
²³²Th thorium
thoron
thorotrast
three-dimensional radiation therapy
thyroid
tissue equivalence
tissue sampling
tissue, body
toxicity, chemical *see biological toxicology*
toxicity, radiological *see biological effects*
track detector
transfer coefficient
transformation factor
transpiration
transplantation
transport, environmental *see food chain*
transportation
transuranium element
treatment
treatment, medical
treatment planning system, TPS
tritium
tritiated water

tumors *see neoplasms*
tumor control probability, TCP

U

ultraviolet radiation *see radiation, nonionizing*

uncertainties

United Nations Scientific

Committee on the Effects of Atomic Radiation (UNSCEAR)

unit, SI *see SI units; International System of Units*

uptake, plant *see plant uptake; food chain*

uranium

uranium, depleted

uranium dioxide

uranium mines

uranium ores

²³⁴U *uranium*

²³⁸U *uranium*

V

ventilation

video display terminal

volume dose histogram, VDH

voxel

voxel phantoms

vulnerability

W

Waste

waste disposal

waste management

waste storage

waste transportation

waste, low-level

water

water, ground *refers to underground supplies, i.e. via faucets, wells, groundwater transport, etc.*

water, salt

water, surface *refers to fresh water, but not underground sources*

water treatment

weapons *see nuclear war; fallout*

whole body counting

whole body irradiation

wipe test

working levels radon

world health organization (WHO)

workplace

wound

X

x ray

x-ray imaging *see imaging*

x-ray machine

Z

Zn-DTPA *see chelation*