



Canadian Nuclear Society / Société Nucléaire Canadienne

Recommended Links for Educators and Students

2011-05-19

Subject (alphabetical)	Organization	Website
AECL, CANDU Reactors	Atomic Energy of Canada Ltd.	www.aecl.ca
AECL, Education	Atomic Energy of Canada Ltd.	www.aecl.ca/Resources.htm
Canadian Nuclear FAQ	Dr. Jeremy Whitlock	www.nuclearfaq.ca/
Canadian Nuclear Industry Tammemagi/Jackson book:	Canadian Nuclear Association Half-Lives - A Guide to Nuclear Technology in Canada	www.cna.ca www.cna.ca/english/pdf/publications/Half-Lives.pdf
Canadian Research Reactors	Atomic Energy of Canada Ltd. history CBC Archives ZEEP NRU Algonquin College McMaster Nuclear Reactor Slowpoke University of Alberta Dalhousie University École Polytechnique Saskatchewan Research Council	www.aecl.ca/Science/RR/History.htm http://archives.cbc.ca/science_technology/energy_production/clips/893/ www.cns-snc.ca/history/ZEEP/ZEEP_AECL1970.pdf www.aecl.ca/Science/CRL/NRU.htm www.nrucanada.ca/en/default.htm www.nrureactor.ca www.science.mcmaster.ca/mnr/Main-Page/Frameset-homepage.htm mnr.mcmaster.ca www.ualberta.ca/~slowpoke/ http://environmentalhealthandsafetyoffice.dal.ca/slowpoke.htm www.polymtl.ca/nucleaire/en/LTN/SLP.php www.src.sk.ca/html/labs_facilities/analytical_labs/index.cfm
Canadian Utility	Bruce Power	www.brucepower.com/pagecontent.aspx?navuid=1
Canadian Utility	Hydro-Québec	www.hydroquebec.com/generation/classics/nuclear/gentilly_2/index.html
Canadian Utility	New Brunswick Power Pt. Lepreau Refurbishment	http://nbpower.com/html/en/about/operating/nuclear.html poweringthefuture.nbpower.com/en/Default.asp
Canadian Utility	Ontario Power Generation	www.opg.com/index.asp
CNA Education	Canadian Nuclear Association	www.cna.ca/curriculum/default.asp
CNS Education Page	Canadian Nuclear Society	www.cns-snc.ca/cns/education-communications
CNSC Education Page	Canadian Nuclear Safety Commission	http://www.nuclearsafety.gc.ca/eng/educational-resources/index.cfm#
Cosmic Origins of Uranium	World Nuclear Association	www.world-nuclear.org/info/inf78.html
Cosmic Rays	Moscow Neutron Monitor	http://helios.izmiran.rssi.ru/cosray/main.htm
Education / Radiation	CBC Radio archives, Montreal Laboratory 1945 Yes I Can Science Electromagnetic Radiation Measuring Radiation – EVARMS Ionising Radiation Unit	http://archives.cbc.ca/science_technology/energy_production/clips/889/ http://resources.yesican-science.ca/trek/radiation/final/index_em_matter.html http://resources.yesican-science.ca/trek/radiation/final/index_EVARMS.html http://radarsat.space.gc.ca/eng/educators/resources/evarm/grade11/measuring.asp resources.yesican-science.ca/trek/radiation/final/index.html



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Energy Supply	Nobody's Fuel	www.nobodysfuel.com/intro.html
Energy Units	Digg, spiral of energy scale – 100 orders of magnitude	http://media.photobucket.com/image/recent/drenka2busy/Nerdy_stuff/energy-scale-100-orders-of-magnitud.jpg
Gamma Rays	NASA	http://science.hq.nasa.gov/kids/imagers/ems/gamma.html
Geiger detectors, software	Aware Electronics Corporation	www.aw-el.com/
Geiger detectors, software	Black Cat Systems (Windows® and Mac)	www.blackcatsystems.com/GM/GeigerCounters.html
Geiger tubes	LND Inc.	www.lndinc.com/
Industrial Radioisotopes	World Nuclear Association	www.world-nuclear.org/info/inf56.html
Interactive Chart of the Nuclides	National Nuclear Data Centre, Brookhaven National Laboratory	www.nndc.bnl.gov/chart/
International Nuclear Industry	International Atomic Energy Agency World Nuclear Association (photos) Power Plants Around the World World Association of Nuclear Operators	www.iaea.org/ www.world-nuclear.org/ www.industcards.com/ppworld.htm#fuel%20cell%20power%20plants www.wano.org.uk/
Ionising and Non-ionising Radiation	US EPA	www.epa.gov/rpdweb00/understand/ionize_nonionize.html
	US DOE Low Dose Radiation Research Program	http://www.lowdose.energy.gov/
Ionisation Energy	US NIST periodic table with html file	www.nist.gov/physlab/data/upload/periodic-table.pdf http://physics.nist.gov/PhysRefData/IonEnergy/tblNew.html
Lord Ernest Rutherford Museum	Professor John Campbell (biographer)	www.rutherford.org.nz
	McGill University	www.physics.mcgill.ca/museum/rutherford_museum.htm
Medical Radioisotopes	MDS Nordion World Nuclear Association You Tube technetium scintigraphy	www.mds.nordion.com www.world-nuclear.org/info/inf55.html www.youtube.com/watch?v=Mj0HDN82Pfo
MRI	University of Nottingham, Sixty Symbols video	http://www.youtube.com/sixtysymbols#p/u/2/_zSgrN_jRaA
Modern Physics for HS	Roberta Tevlin	http://roberta.tevlin.ca/
Neutrinos Geoneutrinos	Laboratoire d'Annecy-le-Vieux de Physique des Particules, CEDEX France	www.lapp.in2p3.fr/neutrinos/anhistory.html
	University of Illinois at Urbana, Astronomy Dept.	www.astro.uiuc.edu/~bdfields/geoneutrinos.html
Neutrinos – SNO Lab	Queen's University – SNO Lab University of Nottingham, Sixty Symbols Video	www.sno.phy.queensu.ca/ http://www.youtube.com/sixtysymbols#p/u/52/md1CKUQp04Q
Neutron Scattering	National Research Council Canadian Neutron Beam Centre	http://neutron.nrc-cnrc.gc.ca/home_e.html
Nuclear Energy Basics	University of British Columbia Faculty of Science	http://c21.phas.ubc.ca/article/nuclear-energy-basics
Nuclear Wall Chart	Lawrence Livermore Laboratories	www.lbl.gov/abc/wallchart/guide.html



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Nuclides	Nucleonica	http://www.nucleonica.net/poster.aspx
NORM Transportation	Health Canada	www.hc-sc.gc.ca/ewh-semt/pubs/contaminants/norm-mrn/index-eng.php
NORM Specialists	NORMCAN	http://www.normcan.com/start.html
Periodic Table	Radiochemistry Society	www.radiochemistry.org/periodictable/index.shtml
Periodic Table – song	Tom Lehrer's Elements song animated with table words	www.youtube.com/watch?v=SmwIzwGMMwc www.youtube.com/watch?v=GFIVXVMbIIQ http://video.google.ca/videoplay?docid=-7098049931934196791&ei=YrLTSdeoCoqWAGzvZGFCg&q=tom+ehr+site+elements+song
Physical Scales	Scale of the Universe -	http://primaxstudio.com/stuff/scale_of_universe/
Physics Demo	Awesome cloud chamber video / Berlin	www.youtube.com/watch?v=Efgy1bV2aQo
Physics Demos	CNS Mousetrap & Superball Chain Reaction	www.cns-snc.ca/ecc/cns_chain_reaction.wmv
Physics Demos	St. Mary's University including mousetrap reactor	www.ap.smu.ca/demonstrations/
Physics Demos	Ithaca Science Center Mousetrap Cascade	www.youtube.com/watch?v=XHitaEy-Xtg
Physics Education Project	Contemporary Physics Education Project	www.cpepweb.org/
Planck's Constant	Perimeter Institute high school experiment	www.perimeterinstitute.ca/en/Outreach/Plancks_Constant/Measuring_Planck's_Constant%3A_Introduction/
Particle Decay	Berkley Lab The Particle Adventure	www.particleadventure.org/decay_intro.html
Particle Physics for teachers	Berkley Lab The Particle Adventure	www.particleadventure.org/edumat.html
Radiation & Radioactivity	Canadian Nuclear Association US Government Health Physics Society Oak Ridge Area Universities Resonance Publications UN – Scientific Committee Effects Atomic Radiation Idaho State University Curtin University of Technology, Australia Twin Health Group, Japan ? Fourmilab (Switzerland, not Fermilab) Absolute Astronomy US Geological Survey Lawrence Berkeley National Laboratory	www.cna.ca/english/facts.asp www.epa.gov/rpdweb00/understand/index.html www.hps.org/ www.orau.org/ptp/collection/consumer%20products/consumer.htm www.resonancepub.com/wroentgen.htm www.unscear.org/unscear/en/publications.html www.physics.isu.edu/radinf/natural.htm www.oklo.curtin.edu.au/ www.taishitsu.or.jp/radiation/index-e.html www.fourmilab.ch/hotbits/how3.html www.absoluteastronomy.com/topics/Radioactive_decay http://pubs.usgs.gov/gip/geotime/radiometric.html http://ie.lbl.gov/education/glossary/glossaryf.htm
Consumer Products Wilhelm Roentgen Radiation effects NORM Natural Reactors – Oklo Terrestrial Radiation Energy to decay / random # Quantum vacuum fluctuation Radiometric Time Scale Glossary / Decay Animations		http://www.youtube.com/sixtysymbols#p/u/16/doTHPDMhWGM
Radiation Dose	University of Nottingham, Sixty Symbols video	http://www.youtube.com/sixtysymbols#p/u/16/doTHPDMhWGM
Radiation Epidemiology	National Council: Radiation Protection & Measure...	www.ncrponline.org/PDFs/Boice.pdf



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Radiation Geophysics	Geological Survey of Canada	http://gsc.nrcan.gc.ca/gamma/dist/index_e.php
Radioactive Substances in Compact Fluorescent Lamps	NEMA Standard LSD 15-1993 (R2001)	www.nema.org/stds/lsd15.cfm
Radioactive tracers	Bizarre 1950s TV commercial on YouTube	www.youtube.com/watch?v=9Q1gksqghLU&NR=1
Radioisotopes – uses	US Nuclear Regulatory Commission	www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0217/r1/br0217r1.pdf
	US EPA	http://www.epa.gov/radiation/source-reduction-management/radionuclides.html
Radon Home Owners	Health Canada & Canada Mortgage & Housing Corporation	www.hc-sc.gc.ca/hl-vs/iyh-vsv/environ/radon-eng.php www.cmhc-schl.gc.ca/odpub/pdf/61945.pdf
Safety	Canadian Nuclear Safety Commission Nuclear Substances ... Regulations SOR /2000-207	www.nuclearsafety.gc.ca/eng/ www.nuclearsafety.gc.ca/pubs_catalogue/uploads/Sor207.pdf
Science Workbooks, lesson plans, Australian context	Australian Nuclear Science and Technology Org.	www.ansto.gov.au/education_resources
Shielding	Harvard	http://www.fas.harvard.edu/~scdiroff/lids/QuantumRelativity/PenetrationandShielding/PenetrationandShielding.html
Sources of Radioactivity	D.R. Lapp	http://scitation.aip.org/journals/doc/PHTEAH-ft/vol_48/iss_2/90_1.html?bypassSSO=1
Sticky Tape Gamma	Physics Dept., UCLA	video www.nature.com/nature/videoarchive/x-rays/
Sustainable Energy – without the hot air	David MacKay, U. of Cambridge	free e-book www.withouthotair.com/
The Standard Model	Lawrence Berkeley National Laboratory	www.particleadventure.org/decay_intro.html
Uranium In drinking water	Cameco Corp. Educational Material Canadian Medical Association Journal	www.cameco.com/uranium_101/ www.cmaj.ca/cgi/content/full/170/6/951
US Nuclear Industry	Whatisnuclear.com	www.whatisnuclear.com/
Vaseline Glass	Oak Ridge Area Universities	www.orau.org/ptp/collection/consumer_products/_aseline.htm
Waves, de Broglie	University of Nottingham, Sixty Symbols video	http://www.youtube.com/sixtysymbols#p/u/1/JIGI-eXK0tq
Web driven nuclear science	Nucleonica	www.nucleonica.net/index.aspx