BIBLIOGRAPHY

## BIBLIOGRAPHY

Alberta Education. Workshop Materials. Edmonton, AB: Alberta Education, 1989.

- Andrews, William A., T.J. Elgin Wolfe, and John F. Eix. *Physical Science: An Introductory Study*. Scarborough, ON: Prentice-Hall of Canada, Ltd., 1978.
- Barton, L. "The Definition of a Mole." CHEM 13 NEWS (Feb. 2005): 10-11.
- Barton, Leslie. "Plastic: Chemistry, Commerce and Culture in Canada, 1945–Present." *CHEM 13 NEWS* 324 (Nov. 2004): 15.
- Becker, Bob. *Twenty Demonstrations Guaranteed to Knock Your Socks Off.* Batavia, IL: Flinn Scientific, Inc., 1994.
- Bransford, John D., Ann L. Brown, and Rodney R. Cocking, eds. *How People Learn: Brain, Mind, Experience, and School.* Expanded Edition. A National Research Council Report. Washington, DC: National Academy Press, 2000.
- Brown, Theodore E., H. Eugene LeMay, and Bruce E. Bursten. *Chemistry: The Central Science*. 9th ed. Upper Saddle River, NJ: Pearson Education/Prentice Hall, 2003.

Brubacher, Lew. "Diamonds." CHEM 13 NEWS 327 (Feb. 2005): 1, 4-6.

- Bybee, Rodger W., C. Edward Buchwald, Sally Crissman, David R. Heil, Paul J. Kuerbis, Carolee Matsumoto, and Joseph P. McInerney. *Science and Technology Education for the Elementary Years: Frameworks for Curriculum and Instruction*. Rowley, MA: The National Center for Improving Science Education (The NETWORK Inc.), 1989.
- Champagne, A.B., R.F. Gunstone, and L.E. Klopfer. "Instructional Consequences of Students' Knowledge about Physical Phenomena." *Cognitive Structure and Conceptual Change*. Ed. L.H.T. West and A.L. Pines. New York, NY: Academic Press, 1985. 61-90.
- Chang, Raymond. *Chemistry*. 4th ed. Boston, MA: McGraw-Hill Higher Education, 1991.
- Chemical Education Material Study. *Chemistry: An Experimental Science Laboratory Manual.* San Francisco, CA: W.H. Freeman and Company, 1963.
- Clement, John. "A Conceptual Model Discussed by Galileo and Used Intuitively by Physics Students." *Mental Models*. Ed. Dedre Gentner and Albert L. Stevens. London, UK: Lawrence Erlbaum Associates, 1983.
- Clinton, Laura, and Catheryn Lee. "Diamonds in the Snow." CHEM 13 NEWS 327 (Feb. 2005): 6-7.
- Coggan, Jenn. "Organic Molecules of Everyday Life: 1. Citronellal." CHEM 13 NEWS 324 (Nov. 2004): 1-2.

- Corno, Lyn, and Judi Randi. "Motivation, Volition, and Collaborative Innovation in Classroom Literacy." *Reading Engagement: Motivating Readers through Integrated Sources*. Ed. John T. Guthrie and Allan Wigfield. Newark, DE: International Reading Association, 1997. 51-67.
- Council of Ministers of Education, Canada. *Common Framework of Science Learning Outcomes K to 12: Pan-Canadian Protocol for Collaboration on School Curriculum*. Toronto, ON: Council of Ministers of Education, Canada, 1997.
- CRC Handbook of Chemistry and Physics: A Ready-Reference Book of Chemical and Physical Data. Cleveland, OH: CRC Press, annual publication.
- Davies, Lucille, Maurice Di Giuseppe, Ted Gibb, Milan Sanader, and Angela Vavitsas. *Nelson Chemistry 12: College Preparation*. Ontario Edition. Toronto, ON: Thomson Nelson, 2003.
- Dietz, Phyllis M., Robert L. Tellefsen, Robert W. Parry, and Luke E. Steiner. *Chemistry: Experimental Foundations – Laboratory Manual.* 2nd ed. Englewood Cliffs, NJ: Prentice-Hall, Inc., 1975.
- Dingrando, Laurel, Kathleen (Gregg) Tallman, Nichols Hainen, and Cheryl Wistrom. *Glencoe Chemistry: Matter and Change*. Columbus, OH: Glencoe/McGraw-Hill, 2005.
- Drake, Susan M. *Planning Integrated Curriculum: The Call to Adventure*. Alexandria, VA: Association for Supervision and Curriculum Development, 1993.
- Duxbury, Alison B., and Alyn C. Duxbury. *Fundamentals of Oceanography*. Dubuque, IA: Wm. C. Brown Publishers, 1996.
- Ellis, Edwin S., Donald D. Deshler, B. Keith Lenz, Jean B. Shumaker, and Francis L. Clark. "An Instructional Model for Teaching Learning Strategies." *Focus on Exceptional Children* 23.6 (Feb. 1991): 1-22.
- English, James, and Harold G. Cassidy. *Principles of Organic Chemistry: An Introductory Text in Organic Chemistry*. New York, NY: McGraw-Hill Book Company, Inc. 1961.
- Environment Canada. "Isotopes Link Birds to Breeding and Moulting Areas." Science and the Environment Bulletin (May/June 2001). 22 June 2006 <http://www.ec.gc.ca/science/sandemay01/article7\_e.html>.
- Foster, Graham. Student Self-Assessment: A Powerful Process for Helping Students Revise Their Writing. Markham, ON: Pembroke, 1996.
- Glatthorn, Allan A. *Learning Twice: An Introduction to the Methods of Teaching*. New York, NY: HarperCollins College, 1993.
- *Glencoe Chemistry: Matter and Change: CBL Laboratory Manual Teacher Edition.* Columbus, OH: Glencoe/McGraw-Hill, n.d.
- *Glencoe Chemistry: Matter and Change: Laboratory Manual Teacher Edition.* Columbus, OH: Glencoe/McGraw-Hill, 2005.

- *Glencoe Chemistry: Matter and Change: Small-Scale Laboratory Manual Teacher Edition.* Columbus OH: Glencoe/McGraw-Hill, 2005.
- Good, Thomas L., and Jero E. Brophy. *Looking in Classrooms*. New York, NY: Harper and Row, 1987.
- Hake, R.R. "Interactive Engagement Versus Traditional Methods: A Six-Thousand-Student Survey of Mechanics Test Data for Introductory Physics Courses." *American Journal of Physics* 66.1 (1998): 64-74.
- Hammer, D. "Discovery Learning and Discovery Teaching." *Cognition and Instruction* 15.4 (1997): 485-529.
- ---. "Epistemological Considerations in Teaching Introductory Physics." *Science Education* 79.4 (1995): 393-413.
- Hestenes, David, and Malcolm Wells. "A Mechanics Baseline Test." *The Physics Teacher* 30.3 (1992): 159-166.
- Hestenes, David, Malcolm Wells, and Gregg Swackhamer. "Force Concept Inventory." *The Physics Teacher* 30 (1992): 141-151.
- Hewson, P.W. "Epistemological Commitments in the Learning of Science: Examples from Dynamics." *European Journal of Science Education* 7.2 (1985): 163-172.
- Hitt, Austin, Orvil White, and Debbie Hanson. "Popping the Kernel: Modeling the States of Matter." *Science Scope* (Jan. 2005): 39-41.
- Hodson, Derek. "Philosophy of Science and Science Education." Journal of Philosophy of Education 20 (1986): 215-225.
- ---. "Toward Universal Scientific Literacy." *Science, Math and Technology Learning for All.* Spec. issue of *Orbit* 31.3 (2000): 13-15. Available online at <http://www.oise.utoronto.ca/orbit/core1\_math.html>.
- Holmquist, Dan, and Donald Volz. *Chemistry with Calculators*. Portland, OR: Vernier, n.d. Available online at <a href="http://www.vernier.com/chemistry/">http://www.vernier.com/chemistry/</a>.
- ---. *Chemistry with Computers*. Portland, OR: Vernier, n.d. Available online at <a href="http://www.vernier.com/chemistry/">http://www.vernier.com/chemistry/</a>>.
- Hoy, R.R. "A 'Model Minority' Speaks Out on Cultural Shyness." *Science* 262 (1993): 1117-1118.
- Jenkins, Frank, Hans van Kessel, Lucille Davies, Oliver Lantz, Patricia Thomas, and Dick Tompkins. *Nelson Chemistry* 11. Ontario Edition. Toronto, ON: Nelson Thomson Learning, 2002.
- Kolodny, A. "Colleges Must Recognize Students' Cognitive Styles and Cultural Backgrounds." *Chronicle of Higher Education* 37.21 (1991): A44.
- Kuhn, Thomas. "Objectivity, Value Judgement, and Theory Choice." *The Essential Tension: Selected Studies in Scientific Tradition and Change*. Chicago, IL: University of Chicago Press, 1977. 320-339.

- Kuhn, Thomas S. *The Structure of Scientific Revolutions*. Chicago, IL: University of Chicago Press, 1962.
- Larochelle, Marie, and Jacques Désautels. *About Science: Students' Cognitive Paths*. Laval, QC: Presse de l'université Laval, 1992.
- Larochelle, Marie, et Jacques Désautels. *Autour de l'idée de science : itinéraires cognitifs d'étudiants et d'étudiantes*. Laval, QC: Presse de l'université Laval, 1992.
- Lederman, Norm G., Fouad Abd-El-Khalick, Randy L. Bell, and Renée S. Schwartz. "Views of Nature of Science Questionnaire: Toward Valid and Meaningful Assessment of Learners' Conceptions of the Nature of Science." *Journal of Research in Science Teaching* 39.6 (2002): 497-521.
- LeMay, Eugene H., Herbert Beall, Karen M. Robblee, and Douglas C. Brouwer. *Prentice Hall Chemistry: Connections to Our Changing World*. Upper Saddle River, NJ: Pearson Education/Prentice Hall, 2002.
- Levinson, Gerald S. "A Simple Experiment for Determining Vapour Pressure and Enthalpy of Vaporization of Water." *Journal of Chemical Education* 59.4 (Apr. 1982): 337–338.
- Lide, David R., ed. CRC Handbook of Chemistry and Physics: A Ready-Reference Book of Chemical and Physical Data. Cleveland, OH: CRC Press, annual publication.
- Linstromberg, Walter W., and Henry E. Baumgarten. *Organic Chemistry: A Brief Course.* Lexington, MA: D.C. Heath and Company, 1978.
- Locke, E.A., and G.P. Latham. *A Theory of Goal Setting and Task Performance*. Englewood Cliffs, NJ: Prentice Hall, 1990.
- Manitoba Education and Training. *Education for a Sustainable Future: A Resource for Curriculum Developers, Teachers, and Administrators.* Winnipeg, MB: Manitoba Education and Training, 2000. Available online at <a href="http://www.edu.gov.mb.ca/k12/docs/support/future/">http://www.edu.gov.mb.ca/k12/docs/support/future/</a>.
- ----. *A Foundation for Excellence*. Winnipeg, MB: Manitoba Education and Training, 1995.
- ---. *Grades 5 to 8 Science: A Foundation for Implementation*. Winnipeg, MB: Manitoba Education and Training, 2000.
- ---. Reporting on Student Progress and Achievement: A Policy Handbook for Teachers, Administrators, and Parents. Winnipeg, MB: Manitoba Education and Training, 1997.
- ---. Science Safety: A Kindergarten to Senior 4 Resource Manual for Teachers, Schools, and School Divisions. Winnipeg, MB: Manitoba Education and Training, 1997.
- ---. Senior 1 Science: A Foundation for Implementation. Winnipeg, MB: Manitoba Education and Training, 2000.
- ---. *Senior 2 English Language Arts: A Foundation for Implementation*. Winnipeg, MB: Manitoba Education and Training, 1998.

- ---. Senior 3 English Language Arts: A Foundation for Implementation. Winnipeg, MB: Manitoba Education and Training, 1999.
- ---. *Senior 4 English Language Arts: A Foundation for Implementation*. Winnipeg, MB: Manitoba Education and Training, 2000.
- ---. Senior Years Science Teachers' Handbook: A Teaching Resource. Winnipeg, MB: Manitoba Education and Training, 1997.
- ---. Success for All Learners: A Handbook on Differentiating Instruction: A Resource for Kindergarten to Senior 4. Winnipeg, MB: Manitoba Education and Training, 1996.
- ---. Technology As a Foundation Skill Area: A Journey Toward Information Technology Literacy: A Resource for Curriculum Developers, Teachers, and Administrators. Winnipeg, MB: Manitoba Education and Training, 1998.
- Manitoba Education and Youth. *Senior 2 Science: A Foundation for Implementation*. Winnipeg, MB: Manitoba Education and Youth, 2003.
- Manitoba Education, Citizenship and Youth. *Rethinking Classroom Assessment with Purpose in Mind: Assessment for Learning, Assessment as Learning, Assessment of Learning.* Winnipeg, MB: Manitoba Education, Citizenship and Youth, 2006.
- ---. Senior 3 Current Topics in the Sciences: A Foundation for Implementation. Winnipeg, MB: Manitoba Education, Citizenship and Youth, 2005.
- Manitoba Sustainable Development Coordination Unit. *Sustainable Development Strategy for Manitoba*. Winnipeg, MB: Sustainable Development Coordination Unit, 1998.
- Mauch, John. "Can You Vacuum Pack a Person?" 22 June 2006 <a href="http://manzano.aps.edu/science/notes/acs\_meeting/VacuumPack.doc">http://manzano.aps.edu/science/notes/acs\_meeting/VacuumPack.doc</a>>.
- Maxwell, Rhoda J., and Mary J. Meiser. *Teaching English in Middle and Secondary Schools.* 2nd ed. Upper Saddle River, NJ: Prentice Hall, 1997.
- McComas, W.F. "Ten Myths of Science: Re-examining What We Think We Know about the Nature of Science." *School Science and Mathematics* 96 (1996): 10-16.
- McDermott, L.C. "What We Teach and What Is Learned Closing the Gap." American Journal of Physics 59.4 (1991): 301-315.
- McDermott, L.C., and E.F. Redish. "Resource Letter PER-1: Physics Education Research." American Journal of Physics 67 (1999): 755-767.
- Millar, Robin, and Jonathan Osborne, eds. *Beyond 2000: Science Education for the Future*. London, UK: King's College, 1998. Available online at <a href="http://www.kcl.ac.uk/depsta/education/be2000/be2000.pdf">http://www.kcl.ac.uk/depsta/education/be2000/be2000.pdf</a>>.
- Mustoe, Frank, Michael P. Jansen, Ted Doram, John Ivanco, Christina Clancy, and Anita Ghazariansteja. *McGraw-Hill Ryerson Chemistry*. Combined Atlantic Edition. Toronto, ON: McGraw-Hill Ryerson, 2004.

- ---. *McGraw-Hill Ryerson Chemistry* 11. Ontario Edition. Toronto, ON: McGraw-Hill Ryerson, 2001.
- National Academy of Sciences (NAS). *Changing Emphases in Assessment of Student Learning*. Washington, DC: National Academy Press, 1996.
- National Research Council (NRC). *National Science Education Standards*. Washington, DC: National Academy Press, 1996.
- ---. Committee on Undergraduate Science Education. *Science Teaching Reconsidered.* Washington, DC: National Academy Press, 1997.
- Oakley, Burks II. *Nitrox Scuba Diving*. University of Illinois at Springfield. 30 April 2000 <a href="http://www.online.uillinois.edu/oakley/nitrox.html">http://www.online.uillinois.edu/oakley/nitrox.html</a>.
- Parry, Robert W., Phyllis M. Dietz, Robert L. Tellefsen, and Luke E. Steiner. *Chemistry: Experimental Foundations*. 2nd ed. Englewood Cliffs, NJ: Prentice-Hall, Inc., 1975.
- PASCO Scientific. *PASPort Explorations in Chemistry Lab Manual*. Roseville, CA: PASCO, n.d. Available online at <a href="http://www.pasco.com/hsmanuals/ps2808.html">http://www.pasco.com/hsmanuals/ps2808.html</a>.
- Pavia, Donald L., Gary M. Lampman, and George S. Kriz. "Esters Flavors and Fragrances." Introduction to Organic Laboratory Techniques: A Contemporary Approach. Philadelphia, PA: W.B. Saunders Company, 1976. 91-94.
- Phillips, John S., Victor S. Strozak, and Cheryl Wistrom. *Chemistry: Concepts and Applications*. Columbus, OH: Glencoe/McGraw-Hill, 2005.
- Probst, Robert E. *Response and Analysis: Teaching Literature in Junior and Senior High School.* Don Mills, ON: Heinemann, 1988.
- Purcell-Gates, Victoria. "Process Teaching with Direct Instruction and Feedback in a University-Based Clinic." *Balanced Instruction: Strategies and Skills in Whole Language.* Ed. Ellen McIntyre and Michael Pressley. Norwood, MA: Christopher-Gordon, 1996. 107-127.
- Reif, F., and J.H. Larkin. "Cognition in Scientific and Everyday Domains: Comparison and Learning Implications." *Journal of Research in Science Teaching* 28 (1991): 733-760.
- Ryan, Richard M., James P. Connell, and Edward L. Deci. "A Motivational Analysis of Self-Determination and Self-Regulation in Education." *Research and Motivation in Education: The Classroom Milieu*. Ed. Russell Ames and Carole Ames. Vol. 2. New York, NY: Academia Press, 1985. 13-51.
- Santa, C.M. *Context Reading Including Study Systems*. Dubuque, IA: Kendall Hunt, 1988.
- Saskatchewan Education. *Instructional Approaches: A Framework for Professional Practice*. Regina, SK: Saskatchewan Education, 1991.

- Schunk, Dale H., and Barry Zimmerman. "Developing Self-Efficacious Readers and Writers: The Role of the Social and Self-Regulatory Processes." *Reading Engagement: Motivating Readers through Integrated Sources*. Ed. John T. Guthrie and Allan Wigfield. Newark, DE: International Reading Association, 1997.
- Seidel, A., ed. *Solubilities of Inorganic and Organic Compounds*. Vol. 1. New York, NY: D. van Nostrand Co., Inc., 1911.
- Silberberg, Martin S. *Chemistry: The Molecular Nature of Matter and Change*. Boston, MA: McGraw-Hill Higher Education, 2003.
- Silver, E.A., and S.P. Marshall. "Mathematical and Scientific Problem Solving: Findings, Issues, and Educational Implications." *Dimensions of Thinking and Cognitive Instruction.* Ed. B.J. Jones and L. Idol. Hillsdale, NJ: Lawrence, 1990. 265-290.
- Slater, A., and G. Rayner-Canham. *Microscale Chemistry Laboratory Manual*. Reading, MA: Addison-Wesley, 1994.
- Strickland, Dorothy S., and Michael R. Strickland "Language and Literacy: The Poetry Connection." *Language Arts* 74 (Mar. 1997): 201-205.
- Sustainability Manitoba. *Sustainable Development Strategy for Manitoba*. Winnipeg, MB: Sustainability Manitoba, 1998.
- Turner, Julianne C. "Starting Right: Strategies for Engaging Young Literacy Learners." *Reading Engagement: Motivating Readers through Integrated Sources*. Ed. John T. Guthrie and Allan Wigfield. Newark, DE: International Reading Association, 1997. 183-204.
- United Nations Educational, Scientific and Cultural Organization (UNESCO). "Le developpement durable grace a l'education relative a l'environnement." *Connexion* 13.2 (June 1988): 3.
- van Kessel, Hans, Frank Jenkins, Lucille Davies, Donald Plumb, Maurice Di Giuseppe, Oliver Lanz, and Dick Tompkins. *Nelson Chemistry* 12. Ontario Edition. Toronto, ON: Thomson Nelson, 2003.
- Weast, Robert C., ed. CRC Handbook of Chemistry and Physics: A Ready-Reference Book of Chemical and Physical Data. 56th ed. Cleveland, OH: CRC Press, 1975.
- White, B.Y., and J.R. Frederiksen. "Inquiry, Modeling, and Metacognition: Making Science Accessible to All Students." *Cognition and Instruction* 16.1 (1998): 3-118.
- Wiggins, Grant. "What Is a Rubric? A Dialogue on Design and Use." Handbook for Student Performance Assessment in the Era of Restructuring. Ed. Robert E. Blum and Judith A. Arter. Alexandria, VA: Association for Supervision and Curriculum Development (ASCD), 1995. 1-13.
- Wilbraham, Antony C., Dennis D. Staley, Michael S. Matta, and Edward L. Waterman. *Prentice Hall Chemistry*. Upper Saddle River, NJ: Pearson Education/Prentice Hall, 2005.

- Williams, Park. "Don't Be an Isodope, Learn about an Isotope." 22 June 2006 <a href="http://www.geog.ucsb.edu/~williams/Isotopes.htm">http://www.geog.ucsb.edu/~williams/Isotopes.htm</a>>.
- Williams, Robin. *The Non-Designer's Design Book: Design and Typographic Principles for the Visual Novice.* Berkeley, CA: Peachpit Press, 1994.
- Willis, Scott. "Interdisciplinary Learning: Movement to Link the Disciplines Gains Momentum." ASCD Curriculum Update (Nov. 1992): 1-8.
- Wood, D., J. Bruner, and G. Ross. "The Role of Tutoring in Problem Solving." Journal of Child Psychology and Psychiatry 17 (1976): 89–100.
- Zumdahl, Steven S. *Introductory Chemistry: A Foundation.* 4th ed. Boston, MA: Houghton-Mifflin, 2004.
- Zumdahl, Steven S., and Susan A. Zumdahl. *Chemistry*. 6th ed. Boston, MA: Houghton-Mifflin, 2003.

## Websites

- Agriculture and Agri-Food Canada. Cereal Research Centre, Winnipeg: <a href="http://res2.agr.ca/winnipeg/v1\_e.htm">http://res2.agr.ca/winnipeg/v1\_e.htm</a>
- Alberta. Oil Sands Discovery Centre. The Oil Sands Story: Upgrading: <http://www.oilsandsdiscovery.com/oil\_sands\_story/upgrade.html>
- Alternate Energy Resource Network: <a href="http://www.alternate-energy.net/">http://www.alternate-energy.net/</a>
- Alternative Energy, Renewable Energy–Hydrogen, Solar, Biofuel, Geothermal, Hydro, and More: <a href="http://curtrosengren.typepad.com/alternative\_energy/">http://curtrosengren.typepad.com/alternative\_energy/</a>>
- The American Plastics Council. Plastic Recycling Resources: <http://www.plasticsresource.com/s\_plasticsresource/doc.asp?TRACKID= &CID=40&DID=420>
- Andy Darvill's Science Site. Energy Resources: <a href="http://www.darvill.clara.net/altenerg/">http://www.darvill.clara.net/altenerg/</a>
- Association of Canadian Underwater Councils (ACUC): <http://www.acuc.ca>
- AUS-e-TUTE. Haber Process for the Production of Ammonia: <a href="http://www.ausetute.com.au/haberpro.html">http://www.ausetute.com.au/haberpro.html</a>>.
- AZCO Industries Limited: <a href="http://www.azco.bc.ca/info/chlorine.htm">http://www.azco.bc.ca/info/chlorine.htm</a>>.
- Canadian Plastics Industry Association. Environment and Plastics Industry Council (EPIC): <http://www.cpia.ca/epic/media/news.php?ID=1332>
- ---. Teacher Resource Site: <http://www.plastics.ca/teachers/>
- The Catalyst: Chemistry Resource for the Secondary Education Teacher on the WWW: <a href="http://catalyst.8media.org/m13organ.html">http://catalyst.8media.org/m13organ.html</a>

- The Chemical Heritage Foundation. Antibiotics in Action: Teacher's Guide: <http://www.chemheritage.org/educationalservices/pharm/tg/antibiot/ activity/size.htm>
- ---. Molecular Size: Oleic Acid Monolayers: <http://www.chemheritage.org/educationalservices/pharm/antibiot/activity/ size.htm>
- Chemistry Coach: <http://www.chemistrycoach.com/tutorial.htm#tutorials>
- Connecticut Department of Environmental Protection. PCBs: <a href="http://dep.state.ct.us/wst/pcb/pcbindex.htm">http://dep.state.ct.us/wst/pcb/pcbindex.htm</a>
- Curt Rosengren. Alternative Energy Renewable Energy: <a href="http://curtrosengren.typepad.com/alternative\_energy/">http://curtrosengren.typepad.com/alternative\_energy/</a>
- Doc Brown's Chemistry Clinic: <a href="http://www.wpbschoolhouse.btinternet.co.uk/page06/FunctionalGroups.htm">http://www.wpbschoolhouse.btinternet.co.uk/page06/FunctionalGroups.htm</a>
- eMedicine (from WebMD). Toxicity, Toluene: <http://www.emedicine.com/emerg/topic594.htm>

Energy Alternatives Ltd.: <a href="http://www.energyalternatives.ca/conservation.asp">http://www.energyalternatives.ca/conservation.asp</a>

Environment Canada: <http://www.ec.gc.ca>.

- ---. Clean Air Online: <http://www.ec.gc.ca/cleanair-airpur/>
- ---. Science and Research: <http://www.ec.gc.ca/cleanair-airpur/ Science\_and\_Research-WS955E8065-1\_En.htm>
- ---. The CEPA Environmental Registry: <http://www.ec.gc.ca/CEPARegistry/>
- ---. "Isotopes Link Birds to Breeding and Moulting Areas." Science and the Environment Bulletin (May/June 2001): <http://www.ec.gc.ca/science/sandemay01/article7\_e.html>
- The Environment Directory: <http://www.webdirectory.com/Science/Energy/Alternative\_Energy/>
- The Fishtank Crew: <a href="http://pcpages.com/fish/nitrogen1.html">http://pcpages.com/fish/nitrogen1.html</a>

The Friends of Science – Providing Insight into Climate Science: <a href="http://www.friendsofscience.org/">http://www.friendsofscience.org/</a>

## Frontiers in Bioscience:

<http://www.bioscience.org/atlases/clinical/nomogram/nomoadul.htm>

- Furtsch, T.A. "Some Notes on Avogadro's Number, 6.022 x 10<sup>23</sup>." Tennessee Technological University: <a href="http://iweb.tntech.edu/chem281-tf/avogadro.htm">http://iweb.tntech.edu/chem281-tf/avogadro.htm</a>
- Georgia Perimeter College. Determination of the Length of an Oleic Acid Molecule and Avogadro's Number: <http://www.gpc.edu/~ddonald/chemlab/oleicavagno.html>

Glencoe Online. An Internet WebQuest. The Chemistry of Fireworks: <a href="http://www.glencoe.com/sec/science/webquest/content/fireworks.shtml">http://www.glencoe.com/sec/science/webquest/content/fireworks.shtml</a>

Greener Industry: <http://www.greener-industry.org/>

- HowStuffWorks. How Breathalyzers Work: <a href="http://science.howstuffworks.com/breathalyzer3.htm">http://science.howstuffworks.com/breathalyzer3.htm</a>
- Intergovernmental Panel on Climate Change (IPCC): <http://www.ipcc.ch/>
- Iowa Health System (HIS). Drug: Anabolic Steroids: <http://www.ihs.org/body.cfm?id=580>
- Maclean's: <http://www.macleans.ca>
- Magma Communications. Doug De La Matter. Experiments with Coins: <a href="http://www.magma.ca/~dougdela/ideas/coindemo.pdf">http://www.magma.ca/~dougdela/ideas/coindemo.pdf</a>>
- Manitoba Education, Citizenship and Youth. Learning Resources: <a href="http://www.edu.gov.mb.ca/k12/learnres/bibliographies.html">http://www.edu.gov.mb.ca/k12/learnres/bibliographies.html</a>
- Manitoba Energy, Science and Technology. Energy Development Initiative. Gasohol Incentives: <a href="http://www.gov.mb.ca/est/energy/ethanol/ethincentives.html">http://www.gov.mb.ca/est/energy/ethanol/ethincentives.html</a>
- ---. Ethanol-Blended Fuels: <http://www.gov.mb.ca/est/energy/initiatives/ethanolfuels.html>
- Manitoba Water Stewardship Branch: <http://www.gov.mb.ca/waterstewardship/odw/index.html>
- Material Safety Data Sheet (MSDS). Toluene: <a href="http://www.jtbaker.com/msds/englishhtml/t3913.htm">http://www.jtbaker.com/msds/englishhtml/t3913.htm</a>
- Michigan State University. Nomenclature: Naming Organic Compounds: <a href="http://www.cem.msu.edu/~reusch/VirtualText4/nomen1.htm">http://www.cem.msu.edu/~reusch/VirtualText4/nomen1.htm</a>
- National Defence. Canadian Forces School of Survival and Aeromedical Training (CFSSAT): <a href="http://www.airforce.forces.ca/17wing/squadron/cfssat\_e.asp">http://www.airforce.forces.ca/17wing/squadron/cfssat\_e.asp</a>>.
- Natural Resources Canada: <a href="http://oee.nrcan.gc.ca/transportation/personal-vehicles-initiative.cfm">http://oee.nrcan.gc.ca/transportation/personal-vehicles-initiative.cfm</a>
- ---. Climate Change in Canada. Teacher's Guide: <a href="http://adaptation.nrcan.gc.ca/posters/teachers/resourc\_e.asp">http://adaptation.nrcan.gc.ca/posters/teachers/resourc\_e.asp</a>
- ---. Personal Vehicle Initiative: <a href="http://oee.nrcan.gc.ca/transportation/personal-vehicles-initiative.cfm">http://oee.nrcan.gc.ca/transportation/personal-vehicles-initiative.cfm</a>
- New York State Department of Environmental Conservation. Recycling Plastics Is as Easy as...: <a href="http://www.dec.state.ny.us/website/dshm/redrecy/plastic.htm">http://www.dec.state.ny.us/website/dshm/redrecy/plastic.htm</a>
- The North Carolina School of Science and Mathematics, Distance Learning Technologies, Teachers' Instructional Graphics Educational Resource (TIGER): <http://www.dlt.ncssm.edu/TIGER/chem3.htm>.

- Northern Blue Publishing. Canadian History Business News. The Small Canadian Penny: <a href="http://northernblue.ca/cbushist/index.php?/archives/165-The-Small-Canadian-Penny.html">http://northernblue.ca/cbushist/index.php?/archives/165-The-Small-Canadian-Penny.html</a>
- Nuclear Energy Institute (NEI): <http://www.nei.org/index.asp? catnum=1&catid=1>
- Oakley, Burks II. Nitrox Scuba Diving. University of Illinois at Springfield: <a href="http://www.online.uillinois.edu/oakley/nitrox.html">http://www.online.uillinois.edu/oakley/nitrox.html</a>
- Obvious Implementations Corporation/Obviously Enterprises. The Internet Consumer Recycling Guide: <a href="http://www.obviously.com/recycle/">http://www.obviously.com/recycle/</a>>
- Ohio Department of Natural Resources. Division of Recycling and Litter Prevention. Recycling Plastic: <a href="http://www.dnr.state.oh.us/recycling/plastics/">http://www.dnr.state.oh.us/recycling/plastics/</a>
- PASCO Scientific: <http://www.pasco.com/hsmanuals/ps2808.html>
- ---. Online Science Experiments. Boyle's Law: <http://www.pasco.com/experiments/chemistry/november\_2001/home.html>
- ---. Physics Experiment Kits. Ideal Gas Law Experiment # 9954: <a href="http://www.pasco.com/products/groups/55-372-2.html">http://www.pasco.com/products/groups/55-372-2.html</a>
- The Physics Hypertext. Thermal Physics. Gas Laws: <a href="http://hypertextbook.com/physics/thermal/gas-laws/">http://hypertextbook.com/physics/thermal/gas-laws/</a>
- Professional Association of Diving Instructors (PADI): <http://www.padi.com>
- Pure Water Products: <http://www.pwgazette.com/rofaq.htm>
- Renewable Fuels Association: <a href="http://www.ethanolrfa.org/">http://www.ethanolrfa.org/</a>
- Rod Beavon. F A Kekulé von Stradonitz: <a href="http://www.rod.beavon.clara.net/kekule.htm">http://www.rod.beavon.clara.net/kekule.htm</a>
- Science Teachers' Resource Center. Oleic Acid Lab: <http://chem.lapeer.org/chem1docs/OleicAcidLab.html>
- Summer Research Program for Science Teachers. How Big Is a Molecule? <a href="http://www.scienceteacherprogram.org/chemistry/Flomberg00.html">http://www.scienceteacherprogram.org/chemistry/Flomberg00.html</a>
- SynLubeTM: <http://www.synlube.com/synthetic.htm>
- Thomas J. Greenbowe, Department of Chemistry, Iowa State University: <http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/ flashfiles/gaslaw/charles\_law.html>
- Topix.net. Alternative Energy News: <a href="http://www.topix.net/tech/alt-energy">http://www.topix.net/tech/alt-energy</a>>
- University of Guelph. Bruce J. Holub. Trans Watch: <a href="http://www.uoguelph.ca/~bholub/trans.html">http://www.uoguelph.ca/~bholub/trans.html</a>

- University of Waterloo. CHEM 13 NEWS: <http://www.chemistry.uwaterloo.ca/about/outreach/chem13news/index. html>
- U.S. Environmental Protection Agency: Radiation Information: <a href="http://www.epa.gov/radiation/radionuclides/tritium.htm">http://www.epa.gov/radiation/radionuclides/tritium.htm</a>
- ---. Recycle City: <http://www.epa.gov/recyclecity/>
- ---. Software for Environmental Awareness (SEAHOME): <a href="http://www.epa.gov/seahome/hwaste.html">http://www.epa.gov/seahome/hwaste.html</a>
- U.S. Food and Drug Administration. Revealing *Trans* Fats: <a href="http://www.fda.gov/fdac/features/2003/503\_fats.html">http://www.fda.gov/fdac/features/2003/503\_fats.html</a>
- U.S. Geological Survey: <http://wwwrcamnl.wr.usgs.gov/isoig/period/h\_iig.html>
- Vernier Software and Technology. Chemistry: <a href="http://www.vernier.com/chemistry/">http://www.vernier.com/chemistry/</a>
- Virginia Commonwealth University. Steroids Introduction: <http://www.people.vcu.edu/~urdesai/intro.htm#Structure>
- Waste Online. Plastic Recycling Information Sheet: <a href="http://www.wasteonline.org.uk/resources/InformationSheets/Plastics.htm">http://www.wasteonline.org.uk/resources/InformationSheets/Plastics.htm</a>
- WebMD. Trans Fats: The Science and the Risks: <http://my.webmd.com/content/article/71/81217.htm>
- The WebQuest Page: <a href="http://webquest.sdsu.edu/">http://webquest.sdsu.edu/</a>
- Webshells.com. Oil, Chemical and Atomic Workers Union (OCAW). Benzene: <a href="http://www.webshells.com/ocaw/txts/doc999994.htm">http://www.webshells.com/ocaw/txts/doc999994.htm</a>>
- The WELL. Web of Addictions. Steroids: <http://www.well.com/user/woa/fsroids.htm>
- Wikipedia: <http://en.wikipedia.org/wiki/Fritz\_Haber>
- Williams, Park. Don't Be an Isodope, Learn about an Isotope: <a href="http://www.geog.ucsb.edu/~williams/Isotopes.htm">http://www.geog.ucsb.edu/~williams/Isotopes.htm</a>>.
- World Health Organization. Protection of the Human Environment: <a href="http://www.who.int/phe/en/">http://www.who.int/phe/en/</a>
- York University. The Chemistry Hall of Fame. Benzene: The Parent Aromatic Compound: <a href="http://www.chem.yorku.ca/hall\_of\_fame/essays97/benzene/benzene.htm">http://www.chem.yorku.ca/hall\_of\_fame/essays97/benzene/benzene.htm</a>