



Case Studies in Science Workshop

Roster for May 19–23, 2008 Session: Case Studies in Science Workshop

Please see the [Case Study Teachers Directory](#) for our latest contact information about participants who have chosen to be listed.

<p>Suparna Bhalla bhalla@msmc.edu Natural Science Natural Science Mount Saint Mary College Newburgh, NY Case Topics: General Biology; Anatomy & Physiology; Biochemistry Courses: General biology; anatomy and physiology; biochemistry</p>	<p>Glenda Broad glendabr@comcast.net Nursing Lancaster General College of Nursing Lancaster, PA Courses: Fundamentals of Nursing Case Topics: Aseptic meningitis; chronic anemia in the elderly; causes of loss of independence in the elderly</p>	<p>Karen Campbell kcampbell@alb.edu Biology Albright College Reading, PA Courses: General Biology (cellular and anatomy & physiology); Advanced Vertebrate Physiology; Comparative Vertebrate Anatomy; non-majors Biology Case Topics: Human physiology (cardiovascular, neurological); animal (vertebrate) physiology (adaptation to environment); exercise physiology</p>
<p>Sigrid Carle carle@hws.edu Biology Hobart and Wm Smith Colleges Geneva, NY Courses: Genetics; Cell Biology Case Topics: P53 and cancer; misfolded proteins and disease; metastasis</p>	<p>Laura Cotlin lcotlin@uab.edu Cell Biology University of Alabama—Birmingham Birmingham, AL Courses: Fundamentals I (first-year med school); Medical Histology (first-year med school); Histology (for dental and optometry students) Case Topics: Cell biology of cancer; histology/pathology; medical biochemistry</p>	<p>Kirsten Davis kirstendavis@boisestate.edu Construction Management Boise State University Boise, ID Courses: Construction Materials and Methods; Introduction to Construction Management; Drawings, Specifications, and Codes; Construction Contracts and Law Case Topics: Various aspects of the architecture/engineering/construction (AEC) industry, including ethical and legal/contractual issues, leadership & management of people, organizational management, and project management.</p>
<p>Rodney Decipeda rodney.c.decipeda@cmsdnet.net Science Teacher Cleveland School of Science and Medicine Cleveland, OH Courses: Physical/Earth & Space Science (9th Grade) Case Topics: Measurement and</p>	<p>Ayesha Delpish adelpish@elon.edu Mathematics Elon University Elon, NC Courses: General Statistics; Probability Theory; Design of Experiments Case Topics: Sample HT; simple</p>	<p>Susan DeSimone sdesimon@middlebury.edu Biology Middlebury College Middlebury, VT Courses: Genetics; Cell Biology Case Topics: Color blindness (genetic and biochemistry); cell differentiation; cell signaling</p>

<p>units; the Scientific Method; kinematics (frame of reference, scalars vs. vectors)</p>	<p>regression; multiple regression</p>	
<p>Bruce Doran bruce.doran@anu.edu.au Ferner School of Environment and Society The Australian National University Canberra, Australia Courses: Introduction to Remote Sensing and Geographic information Systems; Applied Geographic Information Systems; ABC Case Topics: GIS and archeology; GIS and satellite tracking; GIS and fear of crime</p>	<p>Olukemi Fadayomi fadayok@ferris.edu Biological Sciences Ferris State University Big Rapids, MI Courses: Cell Biology; Medical Parasitology; Introductory Biology Case Topics: Enzyme; schistosomiasis; cellular respiration</p>	<p>Anne Farewell anne.farewell@cmb.gu.se CMB-Microbiology Gothenburg University Gothenburg, Sweden Courses: Microbiology; Microbiology (distance/hybrid); Prokaryotic Molecular Microbiology; Genes and Signals Case Topics: Bacterial antibiotic resistance; current bacterial adaptive mutation debate; swarming motility in <i>E. coli</i></p>
<p>Paul Francis pfrancis@mso.anu.edu.au Department of Physics The Australian National University Canberra, Australia Courses: Physics and Astronomy (both 1st yr calculus-based); Honors Astrophysical Techniques; Intro to Astrophysics (Masters-level, online) Case Topics: Sports physics/mechanics; planetary science; statistics and data handling</p>	<p>Diane Galley dgalley@place.dawsoncollege.qc.ca Biology Dawson College Montreal, QC Courses: Intro to Human Anatomy and Physiology (for pre-U students); Intro to Human Anatomy and Physiology (for Nursing students) Case Topics: Transport of respiratory gases (oxyhemoglobin dissociation curve); factors/systems regulating pH; regulation of blood pressure</p>	<p>John Gibson jpgibson@ou.edu Zoology, Botany, and Microbiology University of Oklahoma Norman, OK Courses: Introductory Biology for majors and non-majors Case Topics: Ecological footprints; endocrine disruptors; protecting biodiversity</p>
<p>Andrea Hagedorn a_hagedo@jmsb.concordia.ca Waterloo Chair in Design Engineering University of Waterloo Waterloo, ON Courses: Not applicable Case Topics: Chemical engineering; manufacturing/process engineering; engineering management</p>	<p>Lori Harper harperl@sjabr.org Science St. Joseph's Academy Baton Rouge, LA Courses: Bioethics; Physical Science Case Topics: Genetic markers and privacy issues; environmental ethics; stem cells</p>	<p>Timothy Hayes hayest@obu.edu Chemistry Ouachita Baptist University Arkadelphia, AR Courses: Nutritional Biochemistry; Biochemistry; Physical Science; Experimental Techniques in Chemistry; Chemistry Research Seminar Case Topics: Low-carbohydrate diet; PKU or another metabolic disease with a genetic cause; personalized medicine using gene sequence, microarray or proteomic data to choose between pharmaceutical therapies that have different mechanisms of action</p>
<p>Anne Johnson anne.johnson@ryerson.ca</p>	<p>Paul King pc.king@verizon.net</p>	<p>Vicki LaPlace laplacev@sjabr.org</p>

<p>Chemistry & Biology Ryerson University Toronto, ON Courses: Organic Chemistry I & II; Pharmaceutical Chemistry Case Topics: Anti-Markovnikov addition of HBr to alkenes; ethylene glycol poisoning; enzymatic stereochemical inversion (mechanisms of epimerases and racemases)</p>	<p>Biology Massasoit Community College Brockton, MA Courses: Biological Principles (introductory molecular aspects of biology, basically the first 20 or so chapters of Campbell's <i>Biology</i>) Case Topics: Genetics; disease; DNA technology</p>	<p>Science St. Joseph's Academy Baton Rouge, LA Courses: Biology; Physical Science Case Topics: Genetic markers and privacy issues; environmental ethics; stem cells</p>
<p>Jim Lassoie jpl4@cornell.edu Department of Natural Resources Cornell University Ithaca, NY Courses: Case Topics:</p>	<p>Steve Lin lins@fiu.edu School of Accounting Florida International University Miami, FL Courses: Intermediate Accounting; International Accounting; Global Accounting; Auditing; Financial Strategy Case Topics: Forensic accounting; financial fraud; financial analysis</p>	<p>Lynn Maelia maelia@msmc.edu Division of Natural Science Mount Saint Mary College Newburgh, NY Courses: Chemical Principles; Natural Science Seminar Case Topics: Alternative energy; global warming; spectroscopy</p>
<p>Timothy Murphy murphy@findlay.edu Environmental, Safety and Occupational Health Associate Professor Findlay, OH Courses: Environmental Treatment Methods; Project Management and Planning; Risk Assessment; Production Operations and Auditing; Basic Environmental Health Case Topics: Environmental risk assessment; site safety; worker exposure</p>	<p>Lori Nicholas lori.nicholas@nyu.edu General Studies Program New York University New York, NY Courses: Life Science Case Topics: Cancer and genes; discovery of DNA as genetic material; discovery of structure of DNA</p>	<p>Sean O'Muircheartaigh sean.omuircheartaigh@gmit.ie Physical Science Galway Mayo Institute of Technology Galway, Ireland Courses: Chemistry; Analytical Techniques; Organic Chemistry; Forensic Chemistry; Environmental Chemistry; Industrial Chemistry; Research Supervision Nanoceramic Technology Case Topics: Forensic science; safety; environmental science; chemistry; product liability</p>
<p>Natasha Patrito npatrito@uwo.ca Chemistry The University of Western Ontario London, ON Courses: Ethics in the Physical Sciences Case Topics: Ethics in the physical sciences; environmental chemistry; thermodynamics</p>	<p>Janet Petroski petroski@msmc.edu Division of Natural Sciences Mount Saint Mary College Newburgh, NY Courses: Analytical Chemistry; Instrumental Chemistry; Introductory Chemistry I & II; Chemical Principles I & II Case Topics: Analytical chemistry; instrumental chemistry; physical chemistry</p>	<p>Kirsten Poling kpoling@uwindsor.ca Biological Sciences University of Windsor Windsor, ON Courses: Human Physiology I & II Case Topics: Urinary system function; digestive physiology; cardiovascular physiology</p>
<p>Annie Prud'homme Genereux apg@questu.ca Life Sciences Quest University Canada</p>	<p>Deborah Robertson debrobertson@clarku.edu Biology Clark University</p>	<p>Jonathan Rodgers jdr22@buffalo.edu Counseling, School & Educational Psychology</p>

<p>Squamish, BC Courses: Neurosciences; Cornerstone; Molecular Biology Case Topics: Biochemistry (RNA polymerase mechanism of action); molecular biology (using mitochondrial DNA as a tool to search past ancestry); neuropsychology (brain mechanism of drugs and addiction)</p>	<p>Worcester, MA Courses: Marine Biology (with Seminar); Introductory Biology; Ecology of Atlantic Shores Case Topics: Oceans in a changing climate; iron fertilization in the Southern Ocean; oceanic primary productivity</p>	<p>University at Buffalo Buffalo, NY Courses: Introduction to Psychology Case Topics: Psychological diagnosis & treatment of mental illness in children; advanced biology & evolution; advanced statistical concepts</p>
<p>Gino Romeo Jr gino_romeo@yc.edu Science & Professional Studies Yavapai College Clarkdale, AZ Courses: Chemistry for Allied Health; General Chemistry Case Topics: Chemistry for nurses; chemistry & the environment ; chemistry & materials</p>	<p>Md Shammin rumi.shammin@oberlin.edu Environmental Studies Oberlin College Oberlin, OH Courses: Environment & Society; Energy & Society; Local vs. Global: Environmental Issues Beyond Borders Case Topics: Climate change; urban sustainability; energy conservation</p>	<p>Julie Smit jsmit@uwindsor.ca Biological Sciences & Centre for Teaching and Learning University of Windsor Windsor, ON Courses: Biology of Organisms; Organisms and Their Environment (both courses are 1st year biology for non-majors) Case Topics: Eutrophication (to develop/not develop around a lake); whether to save species endangered in Canada that are abundant in US and other countries; pesticide usage (maximized crop production vs. potential negative effect on environment and inhabitants)</p>
<p>Michele Snyder michele.snyder@clinton.edu Math/Science Division Clinton Community College Plattsburgh, NY Courses: General Biology, Science Inquiry (Bio/Chem), Human Biology Case Topics: Using mtDNA to study evolutionary relationships or ALU insertions to study population diversity within or b/w populations; vitamin D deficiency; scientific process</p>	<p>Khairulzad Sulaiman khairulzad@hc.edu.sg Science (Biology) Hwa Chong Institution (College) Singapore, Singapore Courses: Biology Case Topics: Molecular basis of cancer; cell division (mitosis and meiosis); photosynthesis & cellular respiration</p>	<p>Wenjie Sun wsun@carthage.edu Geography Carthage College Kenosha, WI Courses: Introduction to Human Geography; Introduction to GIS; Geography of East Asia; Introduction to Remote Sensing Case Topics: Human geography; GIS; East Asia</p>
<p>Kimberly A. Swaggard-Svec kimberly.a.swaggard@cmsdnet.net Science Department Cleveland School of Science and Medicine Cleveland, OH Courses: Biology Case Topics: Genetics; microbiology; ecology</p>	<p>Choon Siew Tan tancs@hc.edu.sg Science/Chemistry Hwa Chong Institution (College) Singapore, Singapore Courses: High School Chemistry Case Topics: Organic chemistry; spectroscopic methods (NMR, IR, UV/visible); separation techniques (various forms of chromatography)</p>	<p>Greg Tefft gtefft@northweststate.edu Biological Sciences Northwest State Community College Archbold, OH Courses: Biology for non-majors; Microbiology; Anatomy & Physiology Case Topics: Chemistry for biology non-majors; bioremediation; bacterial identification</p>

Filippos Ververidisververid@steg.teicrete.gr

Plant Sciences

TEI of Crete, GREECE

Heraklion, Greece

Courses: Agricultural Chemistry;

Agricultural Biotechnology;

Seminar Presentation: How to

Organize in Oral and Writing

Case Topics: Agricultural

chemistry/biochemistry; plant

biotechnology; genetically

modified microorganisms and

plants

Kathryn Whitekwhite@mail.accd.edu

Natural Sciences

St. Philip's College

San Antonio, Texas

Courses: Nutrition; Anatomy &

Physiology; General Biology

Case Topics: Cellular respiration;

protein digestion and absorption;

lipid digestion and absorption

Janet Wymanjwyman@place.dawsoncollege.qc.ca

Biology

Dawson College

Montreal, QC

Case Topics: Pathophysiology of the

nervous system; anatomy &

physiology of the endocrine system;

anatomy & physiology of the

muscular system

Courses: Anatomy and Physiology

for Nursing Students (the third in a

series of four courses in human

anatomy and physiology,

immunology and microbiology)

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