

Dr. Gary L. Ackerman

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<http://www.hackscience.net>

Vermont Professional Educators' Level 2 License, expires 2019, educational technology specialist (3-42), secondary science (2-13), and mathematics in grades 7-9 (2-11A)

New Hampshire Experience Educators' License, expires 2020, education technology integrator

Profession Positions:

July 2017-present Flexible Pathways Coordinator

Windsor School, Windsor, VT

- Support dual enrollment, internships, and other flexible learning activities

May 2015-July 2017 Educational Technology Specialist (part-time)

Mount Wachusett Community College, Devens, MA

- Support online teaching and learning in advanced manufacturing programs
- Ensure course materials compile with ADA requirements
- Facilitate collaboration between faculty and IT staff for custom installations
- Facilitate faculty participation in campus-wide curriculum initiatives

July 2014-June 2017 Digital Project Leader (80% FTE)

Rivendell Academy, Orford, NH

- Support technology-rich teaching and learning
- Manage LMS and ePortfolio platforms
- Developed tools to manage online curriculum

September 2013-June 2014 Technology Integration Specialist & Coordinator

Rutland Southwest Supervisory Union, Poultney, VT

- Mentored K-12 faculty in technology-rich teaching and learning
- Supported technology planning and implementation
- Managed Windows WAN and Google Applications for Education
- Provided support and system administration for Windows, iOS
- Collaborated with administrators on planning, budget, and similar decisions
- Managed retirement of XP machines
- Managed transition from Exchange and replacement of servers

July 2012-August 2013 Director of the Center for Teaching and Learning

Mount Wachusett Community College, Gardner, MA

- Managed Blackboard for approximately 5000 users
- Mentored community college faculty in technology-rich teaching and learning
- Co-chaired Academic Environment and Technologies Committee
- Member of Strategic Planning & Academic Professional Development Committees
- Served as technology lead for multiple grants

December 2003-June 2012 Technology Teacher/ Coordinator/ Integration Specialist

West Rutland School, West Rutland, VT

- Managed and maintained Windows networks; Windows, Linux, and Macintosh systems
- Installed first wireless networks
- Secured grants and other alternative funding
- Evaluated, recommended, installed, and managed SIS, OPAC, and LMS platforms
- Supported technology-rich instruction in all grades/subjects
- Courses taught: Computer Applications, Information Systems, Introduction to Programming, Middle School Computers, Physics, Fifth Grade Computers

August 2003-November 2003 Technology Coordinator  
Bennington-Rutland Supervisory Union, Manchester Center, VT  
- Supported technology planning and instruction in several K-8 schools

September 2002-June 2003 Math Teacher  
The Dorset School, Dorset, VT  
- Developed new grade reporting database  
- Led personal performance project initiative  
- Courses taught: Connected Math (grade six and seven), Algebra I

September 1994-June 2002 Math/ Computer Teacher  
Rutland Middle School, Rutland, VT  
- Supported technology planning, systems, and instruction  
- Led electronic portfolio initiative  
- Provided in-service training in information technology  
- Led district-wide technology committee  
- Courses taught: Grade Seven Math, Middle School Computers, Enrichment

September 1992-June 1994 Science Teacher  
Mill River Union High School, North Clarendon, VT  
- Led the first technology planning committee in the school  
- Developed computer-based chemistry and physics curricula  
- Courses taught: Earth Science, Chemistry, Life Science, Physical Science

September 1988-June 1992 Science Teacher  
Lamoille Union High School, Hyde Park, VT  
- Served as interdisciplinary team leader  
- Led extensive field-based science program  
- Provided in-service training  
- Courses taught: Life Science, Physical Science, Enrichment

#### Education:

Doctor of Philosophy in Education, 2009, Northcentral University, Prescott Valley, AZ  
Dissertation: *Information Technology in the K-12 Classroom: Curriculum and Instruction  
Reflecting Emerging Capacity and Paradigms*

Master of Arts in Education, 2000, Castleton State College (now Castleton University),  
Castleton, VT  
Thesis: *Technology Planning in the Schools of Southwest Vermont*

Bachelor of Science in Education, 1988, University of Vermont, Burlington, VT  
- Conducted original research in botany

#### Higher Education Teaching:

St. Thomas University, Miami, FL  
- Media Design and Development, December 2016-May 2017

Mount Wachusett Community College, Gardner, MA  
- Spreadsheet Applications, Spring 2013-present  
- Computer Applications, Spring 2016, Summer 2017  
- College Access Challenge, Spring 2013  
- Statistics, Fall 2012

Evaluator of Learning, College for America at Southern New Hampshire University, Manchester, NH, January 2013-April 2015

- Analyzing Financial Data
- Applying Economic Theories
- Environmental Science/ Consider the Environment
- Marketing and Teamwork
- People Management/ Manage People
- Psychology and the Scientific Method/ Experiment with Psychology

Community College of Vermont, Rutland, VT

- Microcomputer Applications, Fall 2010

Kaplan University, School of Graduate Education, Ft. Lauderdale, FL

- Foundations of Information Technology, May – December 2010

Castleton State College, Center for Teaching and Learning

- Computer Power Tools for Learning, 2007
- The Internet in the Modern Classroom, 2006
- Rutland Central Supervisory Union Technology Institute, 2005, 2009
- Teaching and Learning in Grades Five – Nine, 2004
- Portfolios for Modern Educators, 2003

University of Vermont, Burlington, VT

- Information Technology for School Library and Media Centers, 2000-2006

Vermont Association of Middle Level Education, Johnson, VT

- Summer Institute, 2000-2003

Rutland Region Education Alliance, Rutland, VT

- Capstone Institute, 1999-2003

College of St. Joseph in Vermont, Rutland, VT

- Computers in the Classroom, 1998-2003

#### Leadership Experiences:

New England Education Research Organization, Boston, MA

- Reviewer, Teaching and Teacher Education Strand, Annual Conference, 2016
- Web master, 2012-2015
- Co-Leader, Curriculum and Instruction Strand, Annual Conference, 2012-2015

New England League of Middle School, North Andover, MA

- Board of Directors, 2007-2009
- Technology Committee, 2003-2009; Chair, 2007-2009

Rutland Central Supervisory Union, Rutland, VT

- Chair, Technology Steering Committee, 2006-2008

Rutland Region Education Alliance, Rutland, VT

- Capstone Leadership Team, 1999-2003

Vermont Information Technology Association for the Advancement of Learning, Montpelier, VT

- Chair of Southwest Regional Group & Board of Directors, 1998-2002

Professional Presentations:

- Training to Education: Supporting New Instructors*  
Massachusetts Colleges Online Annual Conference, June 2016
- The Application of Technology Acceptance to Educational Design*  
New England Education Research Organization, April 2016
- Avoiding Red Herrings: Technology Support that Works*  
New England League of Middle Schools, April 2016
- Avoiding Red Herrings: Technology Support that Works*  
Association for Educational Communication and Technology, November 2015
- Flipped with Purpose*  
New England League of Middle Schools Annual Conference, April 2014  
Association of Middle Level Educators Annual Conference, November 2013  
E-Volution Conference (Camden, CT), June 2013
- Active Learning at a Distance*  
Massachusetts Colleges Online Annual Conference, June 2013
- Measuring Technology Acceptance in K-12 Educators: Adapting an Instrument*  
New England Educational Research Organization Annual Conference, May 2012
- Reframing Classrooms for Technology*  
*Technology Acceptance: Overcoming Barriers*  
*Educational Technology: A Looming Mid-Life Crisis?*  
New England League of Middle Schools Annual Conference, April 2012
- Frameworks: Becoming Janus in the Digital World*  
Association of Teacher Educators Annual Conference, February 2012
- Technology Trends*  
*Digital Learners: The First Generation was Just Practice*  
*Technology in Schools: A Wicked Problem*  
New England League of Middle Schools Annual Conference, April 2011
- The End of Integration... Wait...What?*  
Vermont Information Technology Association for the Advancement of Learning,  
VermontFest, 2010
- That Light is a Train: Emerging Technology Trends*  
Vermont Information Technology Association for the Advancement of Learning,  
Dynamic Landscapes, 2010
- Relevant Curriculum in the 21st Century*  
*Preparing Middle School Students for Distance Learning*  
New England League of Middle Schools Technology Summit, October 2009
- Cyberbullying*  
*That Light is a Train: Emerging Technology Trends*  
*Distance Learning in Middle Schools*  
New England League of Middle Schools Annual Conference, April 2009
- Middle School Classroom 2.0*  
New England League of Middle Schools Tri-State Conference, October 2008

- My Computer Can Do That?*  
New England League of Middle Schools Annual Conference, April 2008
- Open Source Software*  
*Online Courses*  
Vermont Principals Association Small School Conference, September 2007
- Leading in a Wired World* (co-presenter)  
New England League of Middle Schools Annual Conference, April 2007
- Using Technology to Promote the Unified Arts*  
New England League of Middle Schools Unified Arts Conference, October 2006
- Technology: What To Do If You Don't Have Enough* (co-presenter)  
New England League of Middle Schools Annual Conference, April 2006
- Technology In the Middle School Classroom*  
*Technology-Rich Science Show & Tell*  
New England League of Middle Schools Annual Conference, April 2005
- Intranets: A Tool for Modern Middle Schools*  
New England League of Middle Schools Tri-State Conference, October 2005
- Creating a (Technology-Rich) Collecting Culture*  
New England League of Middle Schools Annual Conference, April 2004
- Keeping It Middle School When Your School Isn't*  
Vermont Middle Grades Institute, June 2003
- Preparing Powerful Portfolios*  
New England League of Middle Schools Annual Conference, April 2003
- Components of a Manual for Practitioners*  
New England League of Middle Schools Annual Conference, April 2002
- Electronic Portfolios in the Unified Arts Curriculum*  
New England League of Middle Schools Unified Arts Conference, October 2002
- Capstone Initiative* (co-presenter)  
Vermont Association for Supervision and Curriculum Development Conference, October 2000
- Gathering Meaningful Data in Middle Schools*  
New England League of Middle Schools Annual Conference, April 2000
- Using Qualitative Research Methods to Enhance Our Teaching* (co-presenter)  
New England Educational Research Organization Annual Conference, May 1998

Writing & Research:

- Member of editorial board for M Grasseti and S. Brookby (Eds.). *Advancing next-generation elementary teacher education through digital applications*. Hershey, PA: IGI-Global.
- Ackerman, G. (2017). Strategies to increase technology acceptance. In M Grasseti and S. Brookby (Eds.). *Advancing next-generation elementary teacher education through digital applications*. Hershey, PA: IGI-Global.
- Ackerman, G. (2015). *Technology-Rich Teaching: Classrooms in the 21st Century*. Lanham, MD: University Press of America.

- Ackerman, G. (2014). Turning the Flipped Classroom Upside-Down. *AMLE Magazine* 1(8), 44-5.
- Ackerman, G. (2014). *Flipped with Purpose: Refreshing Technology in Classrooms*. West Rutland, VT: author.
- Technology columnist and blogger for the New England League of Middle Schools (April 2010-April 2016)
- Ackerman, G. (2011). *Instrument to measure Unified Theory of Acceptance and Use of Technology*. <https://sites.google.com/site/utauttest/home>.
- Ackerman, G. (2011 March 8). Bridging 21st Century Gaps: An Essay Review of Mehlenbacher's *Technology and Instruction*. *Education Review*, 14(8).
- Ackerman, Gary. (2011 January 27). Review of *Wisdom: From Philosophy to Neuroscience* by Stephen S. Hall. *Education Review*, 13.
- Ackerman, Gary L. (2010 September 21). Review of *The Shallows: What the Internet is Doing to Our Brains* by Nicholas Carr. *Education Review*, 13.
- Ackerman, Gary. (2010 August). Brief Review of *Digital Habitats: Stewarding Technology for Communities* by John Smith, Etienne Wenger, E., & Nancy White. *Education Review*.
- Ackerman, G. (2010). *Technology in Your Classroom: Habits, Skills, and Knowledge for the 21st Century Educator*. West Rutland, VT: author.
- Ackerman, Gary. (2010 May). Brief Review of *Rewired: Understanding the iGeneration and the Way They Learn* by Larry Rosen. *Education Review*.
- Ackerman, G. (2010). *Starting Line 2010: Essential Information Technology Skills for Educators*. West Rutland, VT: HackScience.
- Ackerman, Gary. (2010 March). Brief Review of *21st Century Skills: Learning for Life in Our Times* by Bernie Trilling and Charles Fadel. *Education Review*.
- Ackerman, Gary. (2010 January) Brief Review of *The Nature of Technology* by W. Brian Arthur. *Education Review*.
- Ackerman, G. (2009). *Information Technology in the K-12 classroom: Curriculum and Instruction Reflecting Emerging Capacity and Paradigms*. Unpublished doctoral dissertation, Northcentral University, Prescott Valley, AZ.
- Ackerman, G. (2009). *The New Starting Line: 30 Essential Technology Skills for the 21st Century Educator*. Rutland, VT: Rutland Central Supervisory Union.
- Ackerman, Gary. (2009 June). Brief Review of *iBrain: Surviving the Technological Alteration of the Modern Mind* by Gary Small and Gigi Vorgan. *Education Review*.
- Ackerman, Gary. (2009 February). Brief Review of *Brain and Culture* by Bruce Wexler. *Education Review*.
- Ackerman, Gary. (2008 October). Brief Review of *Disrupting Class: How Disruptive Innovation Will Change the Way the World Learns* by Clayton Christenson, Curtis Johnson, and Michael Horn. *Education Review*.
- Ackerman, G. (2008). How I Spent My Summer: Life Teaches a Teacher. *Journal of the New England League of Middle Schools*, 19(1), 5-7.
- Ackerman, G. (2007). *Basic Technology Survey: A Protocol for Documenting Educators' Essential Technology Abilities*. (Unpublished manuscript). Northcentral University, Prescott, AZ.

- Ackerman, G. (2006). Technology for *Turning Points*. *Journal of the New England League of Middle Schools*, 18(1), 22-6.
- Ackerman, G. (2003). *Online Learning Environments for Southwestern Vermont: A Framework for Planning and Initial Endeavors*. (Unpublished Manuscript). School of Computer and Information Sciences, Nova Southeastern University Fort Lauderdale, FL.
- Ackerman, G. (ed.). (2002). *Electronic Personal Development Collections: A Resource CD for Educators*. Rutland, VT: Rutland Region Education Collaborative.
- Ackerman, G. (2000). *School Technology Planning in Southwestern Vermont*. (Master's Thesis). Castleton State College, Castleton, VT.
- Ackerman, G. (1999). *Interviewing to Understand Technology*. (Unpublished Manuscript). Education Department, Castleton State College, Castleton, VT.
- Ackerman, G. (1987). *The Effects of Pruning on Lateral Growth of Pinus resinosa*. (Unpublished Manuscript). Botany Department, University of Vermont, Burlington, VT.