

Dr. Gary L. Ackerman
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<https://hackscience.education>

Profession Positions:

July 2021-present Director, Teaching and Learning Innovation

February 2019-June 2021 Coordinator of Instructional Technology

Greenfield Community College, Greenfield, MA

- Manage Moodle for approximately 2000 users
- Consult with faculty in all areas to use classroom and online technologies
- Lead initiative to improve course quality and accessibility
- Advocate for faculty within the information technology department

July 2020-June 2021 Learning Design Consultant (part-time, temporary)

Castleton University, Castleton, VT

- Supported faculty in their use of Canvas for remote teaching
- Planned and delivered virtual and self-paced workshops for faculty
- Developed materials using Articulate

July 2018-January 2019 Educational Consultant

Independent Contractor, Rutland, VT

- Developed open educational resources
- Edited educational manuscripts
- Led efforts to increase problem-based math curriculum

July 2017-June 2018 Flexible Pathways Coordinator

Windsor School, Windsor, VT

- Supported internships, early college courses, independent studies, community-based education, and similar activities for high school students
- Created web-based spaces for program management and administration

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

Mount Wachusett Community College, Devens, MA

- Supported online teaching and learning in advanced manufacturing programs
- Ensured course materials compiled with ADA requirements
- Created open education resources and managed MWCC's OER collection
- Collaborated with IT staff to plan custom installations
- Managed network and desktop devices for specialized training purposes and devices
- Facilitated faculty participation in campus-wide curriculum initiatives

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

Rivendell Academy, Orford, NH

- Supported technology-rich teaching and learning, especially critical explorations
- Deployed and managed LMS and electronic portfolio platforms
- Developed tools to manage online curriculum
- Expanded multimedia projects throughout the school
- Managed laptops deployed in one-to-one initiative along with Macintosh and PC desktops

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 transition from Exchange to Gmail 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
- 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 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
- Supported technology-rich instruction in all grades/subjects

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 Mathematics Teacher

The Dorset School, Dorset, VT

- Developed new grade reporting database
- Implemented real-world mathematics integration with science
- Led personal performance project initiative

September 1994-June 2002 Mathematics and 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

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

September 1988-June 1992 Science Teacher

Lamoille Union High School, Hyde Park, VT

- Served as interdisciplinary team leader
- Led extensive field-based science program

Education:

Doctor of Philosophy in Education, 2009, Northcentral University, Prescott, 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:

Mount Wachusett Community College, Gardner, MA 2012-present

- Spreadsheet Applications
- Introduction to Information Systems
- Computer Applications
- College Access Challenge
- Statistics

St. Thomas University, Miami, FL, December 2016-May 2017

- Media Design and Development

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, Fall 2010

- Microcomputer Applications

Kaplan University, School of Graduate Education, Ft. Lauderdale, FL, May – December 2010

- Foundations of Information Technology

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 2000-2006

- Information Technology for School Library and Media Centers

Vermont Association of Middle Level Education, Johnson, VT, 2000-2003

- Summer Institute

Rutland Region Education Alliance, Rutland, VT, 1999-2003

- Capstone Institute

College of St. Joseph in Vermont, Rutland, VT, 1998-2003

- Computers in the Classroom

Professional Service:

Member of editorial board for *Journal of Educational Studies and Multidisciplinary Approaches* and *International Journal of Modern Education Studies* since May 2021

Member of editorial board for M. Grasseti and J. Zoino-Jeannetti (Eds.). (2020). *Next Generation Digital Tools and Applications for Teaching and Learning Enhancement*. IGI-Global.

MERLOT, California State University
- Instructional Technology Editorial Board, 2018-2020

Member of editorial board for M Grasseti and S. Brookby (Eds.). (2017). *Advancing next-generation elementary teacher education through digital applications*. IGI-Global.

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:

The Discovery of a Typology for Professional Development
New England Educational Research Organization, April 2021

Spinning Up Online Courses
Teaching Learning and Student Development Conference, April 2021

Training, Planning, Designing: Purposeful Professional Development
Association for Educational Communication and Technology, November 2020

Accessing Online Content for Teaching Mathematics (co-presenter)
Universal Design and ADA Best Practices (co-presenter)
Virtual Valley Conference, August 2020

Planning and Leading for Innovative Technology
Teaching and Learning and Student Development Conference, April 2018

Technology in Support of Diverse Assessment
Association for Educational Communication and Technology, November 2017

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:

- Ackerman, G. (2020). A typology for professional development. In M. Grasseti & J. Zoino-Jeannetti (Eds.), *Next generation digital tools and applications for teaching and learning enhancement*, (pp. 180-200). IGI-Global.
- Ackerman, G. (2020). Leadership and the adoption of innovative planning. In J. O'Connor (Ed.), *Strategic planning in PK-12 settings*, (pp. 65-81). IGI-Global.
- Ackerman, G. (2018). Open source online learning in rural communities. In I. Bouchrika, N. Harrati, and P. Vu. (Eds.). *Learner experience and usability in online education*. Hershey, PA: IGI-Global.
- Ackerman, G. (2018). *Efficacious technology management: A guide for school leaders*. Rutland, VT: author. (This was released under a Creative Commons license, and was reviewed on MERLOT.)
- Blogger at <http://www.hackscience.net/blog> since November 2017
- Ackerman, G. (2017). Technology in support of diverse assessment. In M. Simonson & D. Seepersaud (Eds.). *Proceedings of the 40th Association for Educational Communications and Technology*, 147-155.
- 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.

Technology columnist and blogger for the New England League of Middle Schools (April 2010- 2017)

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.

Columnist and blogger for the New England League of Middle Schools, 2012 - 2016.

Ackerman, G. (2011). *Instrument to measure Unified Theory of Acceptance and Use of Technology*. [https:// sites.google.com/site/utautest/home](https://sites.google.com/site/utautest/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, G. (2010 September 21). Review of *The shallows: What the Internet is doing to our brains* by Nicholas Carr. *Education Review*, 13.

Ackerman, G. (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, G. (2010 May). Brief review of *Rewired: Understanding the i-generation 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, G. (2010 March). Brief review of *21st century skills: Learning for life in our times* by Bernie Trilling and Charles Fadel. *Education Review*.

Ackerman, G. (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.
- Ackerman, G., & Offenhardt, S. (1986). *The effects of cadmium on nodule formation in legumes* (Unpublished manuscript). Botany Department, University of Vermont, Burlington, VT.