

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

Professional Positions:

February 2019-present 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-January 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 M. Grassetti 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 Grassetti 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:

*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. Grassetti & 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. Grassetti 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/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, 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 Christensen, 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., & Offenhartz, S. (1986). *The effects of cadmium on nodule formation in legumes* (Unpublished manuscript). Botany Department, University of Vermont, Burlington, VT.