

# Catherine C. Saldutti

President, EduChange, Inc.  
Founder, Teachers for Learners, LLC  
1932 ½ Rodney Drive  
Los Angeles, CA 90027  
+1-310-736-1300

[catherine@educhange.com](mailto:catherine@educhange.com)  
[LinkedIn Profile](#)  
Twitter: [@EduChange](#)  
WeChat: Saldutti  
Skype: catherine.saldutti

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## EDUCATION

Harvard Graduate School of Education, Ed.M., 1993 Teaching and Curriculum

- Chair of the Dean's Advisory Committee

Stanford University, B.A., 1992 Human Biology with a Concentration in Education Policy

- Cap and Gown Women's Honor Society; Independent Study: International Technology Education—manuscript used by professor J. Myron Atkin to frame section of original TIMSS study; TA: Public Speaking; TA: Science Education policy

## EXPERIENCE

**Inventor:** Holds United States Patent #7,896,651 dated March 1, 2011 for a System and Method for Educational Instruction.

### **2000-present —President, EduChange, Inc., New York, New York**

Leader of educational products and services S-corporation in New York City, serving three main areas: curriculum development, professional development and program evaluation. Clients include K-12 schools, institutions of higher education, informal science institutions, and non-profit organizations. Supervise employees, manage finances, steer strategy and development, manage all corporate operations. Lead consultant on all professional development projects & lead editor for all instructional materials and products. Lead author, [The Integrated Science Program](#), a multi-year, comprehensive, digital OER curriculum package integrating biology, physics, environmental science and chemistry through a hands-on inquiry-based approach; implemented in 10 schools with ~40 teachers in the greater NY area over six years (2002-2008) and externally evaluated (2002-2006); launched internationally with Graded School in Sao Paulo, Brazil in 2013, The International School of Kuala Lumpur in Malaysia in 2014, The American School in Japan in 2015, and Colegio del Valle in Mexico in 2016.

### **Clients & Projects include:**

- *Academy of Educational Development*— Co-Author, *Inquiry Into Student and Teacher Work* (2003-2004); Researcher, Program Evaluation for The Appalachian Regional Commission – Oak Ridge National Laboratory (2005-2006)
- *Chappaqua Independent School District* – Strategic Professional Development Design and Leadership Capacity-building (2013-2018)
- *Colegio del Valle*—Implementing The Integrated Science Program, 3-yr model (2016 – 2018)
- *Educational Testing Service*—National Assessment Design Consultation, online standardized testing development (2000)
- *Expeditionary Learning/Outward Bound Schools*—National Partner, Curriculum and Instruction (2004-2009)
- *Graded School, Sao Paulo*—International Launch School for The Integrated Science Program, 3-yr model (2012 – 2017)
- *Hastings-on-Hudson Public Schools*—K-12 Science, Foreign Language, & Music Program Restructuring Initiatives (2001-2007)
- *The Howard Hughes Medical Institute*— Leader of External Evaluation Team, Locally Funded Programs, MD (2007-2008); Leader of External Evaluation Team, Middle School Curriculum & Professional Development Initiative, Loudoun Cty, VA (2005-2006);
- *The Institute for Writing and Thinking, Bard College*—Pilot Program Consultant & Evaluator (2003-2004)
- *The International School for Kuala Lumpur*—Implementing The Integrated Science Program, Accelerated model (2013 – 2019)
- *Inverness Research Associates*—NSF Program Evaluation, Informal Science Institutions (2003-2004)
- *The Milwaukee School of Engineering*—Lead Evaluator for nation-wide scale-up of SMART Teams, The Center for Biomolecular Modeling (2007-2013)
- *National Center for Simulation* – Member, Education & Workforce Development Committee (2017-2019)
- *New Visions for Public Schools*—Professional Development Provider for 3 Networks (Writing for ELA, Science & SS; Academic Vocabulary for ELA, Science & SS); Consultant to Small Learning Communities Project, John Adams High School, Queens, NY (2003-2014)
- *New York City Department of Education*—Contracted Vendor for Professional and Curriculum Development Services; Science and Literacy professional development contracts serving over 450 schools across all 5 boroughs (2003-2014)
- *New York State Teacher Centers*—Consultant to Evaluation and Strategy Committee, Teacher Centers network (2008)

- *Oracle Education Foundation*—Advisory Board Member (2008-2011); Judging Process Development and Implementation for ThinkQuest International Competition for student technology projects (2009-2012); Online project development for elementary, middle and high school students, ThinkQuest Projects (2007)
- *Rockefeller University's Science Outreach Program*— Research & Evaluation (2000-2005)
- *SciPlay*—Content development, organizational partner coordination and school liaison for playground science learning project across 6 pilot schools in NYC; part of the schoolyards to playgrounds program and Mayor Bloomberg's PlaNYC (2008-2010)
- *Scholastic, Inc.* – Impact Study of Elementary Reading Intervention Tool (2005)
- *Kaplan Tutoring, Kaplan, Inc.*—Luminary Review of elementary math and reading online tutorial programs (2007); Writing Program Conceptual Development (2008-2009)
- *Teachers College, Columbia University*—Pre-service Teacher Supervision, Middle & High School Science (2003-2004)
- *Teachers for Learners, LLC*—Founded educational product company to design classroom tools and systems (2006-2018)
- *UMDNJ, with Columbia University, University of Pennsylvania, Johns Hopkins University*--Peer Cluster Meeting Facilitator, Community Outreach and Education Core (COEC), National Institute of Environmental Health Sciences, NIH (2010)
- *Victory Schools, Inc.*—Charter School Standards-based Curriculum Analysis (NY, MD, & PA) (2001-2003)
- *Westchester Teacher Center*—Professional Development Provider (2002-2006)

**2006-2011 —Founder, Teachers for Learners, LLC, San Francisco, California**

Founder of manufacturer and distributor of productivity tools and systems for K-12 teachers and learners, university and technical programs, corporate training, inter-industry collaboration, and international collaboration. Maintains R&D and professional development partnership with EduChange, Inc. for all tools. Led market research team; developed Asian-US supply chain, QA protocols, and manufacturing safety data sheets; organized US-based marketing and sales efforts. *Concept Construxions*® (2007 launch) district implementation includes trained and equipped teachers in: New York City; Fairfax County Public Schools, VA; Richmond Public Schools, VA; Commonwealth of the Bahamas; Perris Union High School District, CA; Seminole County, FL; various single schools across the USA. *Differentiated Planning Assistant*™ software for teachers (2010 launch) uses school site license adoption model. International pilots launched in 2014.

**1995-1999— Science Coordinator & Teacher, Attleboro High School, Attleboro, Massachusetts**

Department Chair for 15 teachers and 1650 science students. Teacher of two sections of Honors Biology and one of AP Biology. Major accomplishments:

- *Curriculum Development* Restructured entire 9-12 science curriculum, including development of two-year, lab intensive, integrated Unified Science Program aligned with MA Framework. Created graduated skills schema for all 20 courses. Constructed 5-year implementation plan, including seminars for various community constituents.
- *Professional Development* Led over 20 workshops in assessment design, curriculum development, student-centered learning, technology integration, interdisciplinary themes, and biology content to transition all science staff into restructured curriculum. Directed the creation and implementation of 7 new science courses.
- *Student Motivation* Increased science enrollment from 75% to 91% of total student population. Increased number of upper-level students to graduate with 6 full years of coursework from under 5 to over 110 per graduating class. Established 3-year high school graduation requirement in science.
- *Resource Management* Developed annual departmental budget for all text and laboratory materials and equipment. Managed the systemic reorganization of laboratory facility, including a maintenance plan with proper safety checks.
- *Computer Technology* Secured funds to obtain and maintain computer hardware, instructional software, probes, a local weather station transmitter, and Internet access on 6 mobile laboratory computers. Worked with students to design science student database using Microsoft Access™ software.
- *Personnel* Spearheaded school-wide teacher recruitment effort. Hired 7 of 15 science staff, interviewed for all departments, worked with system administrators to attract science teachers to all K-12 levels.
- *Articulation* Co-chaired K-12 science and technology committee and led development of MA Framework-based K-8 curriculum modules. Coordinated and managed meetings for 8<sup>th</sup> and 9<sup>th</sup> grade teachers focused on all aspects of high school transition. Developed entrance criteria for prospective 9<sup>th</sup> grade honors students.
- *Evaluation* Conducted classroom observation series for all 15 staff members. Mentored 7 new staff members.
- *Organizational Leadership* Attained Professional Status (tenure) after 2 years instead of 3. Actively participated on PALMS Leadership Team (MA State Systemic Initiative) and AHS Leadership Team. Elected secretary-treasurer of regional SEMASS organization and nominated for statewide position.

**1995-1996—Consultant, Education Development Center, Inc., Newton, Massachusetts**

Collaborated with members of the Center For Science Education on NSF Instructional Materials Development proposal

**1994-1995—Consultant, Stanford Human Genome Center, Palo Alto, California**

Co-designed NIH-funded interdisciplinary high school curriculum unit with team of UCSF and Stanford University specialists and genetics researchers, focused on ethics & bioremediation. Piloted 6-week curriculum in 4 biology classes of 40 students each.

**1993-1995—Biology/Health Ed. Teacher, George Washington High School, San Francisco, California**

Taught 5 classes of 40 students each on campus of 3000 students. Designed lab-centered biology course culminating in state exam (The Golden State Exam) with written and practical sections. Developed semester-long health course, including conflict resolution, narcotics, alcohol and tobacco education, domestic violence, AIDS week, body image and disorders, decision-making skills.

**1992-1993—Student Teacher, South Boston High School, South Boston, Massachusetts**

**SELECT PUBLICATIONS**

- LoMonico, C. and Saldutti, C. (October, 2007) Vocabulary Instruction Meets Concept-Building. *Language Magazine*, pp. 26-30.
- Gottfried, N. and Saldutti, C. [Changes in Student and Teacher Attitudes and Behaviors in an Integrated High School Science Curriculum](#). Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, Vancouver, British Columbia, (April 1-4, 2004). *\*\*Nominated for The NARST Outstanding Paper Award.*
- Rubin, Catherine S. and Wilson, S. (2001) Inquiry By Design: Creating a National and State-Standards-Based High School Science Program. *The Science Teacher*. Washington, D.C.: National Science Teachers Organization.
- Rubin, Catherine S. (2000) *New Jersey GATEWAYS: A Primer and Companion Guide to the K-12 Curriculum Standards*. New York: EduChange, Inc.
- Rubin, Catherine S. (2001) Two Standards-Based Checkpoints: Social Promotion and Curriculum Articulation. *New Jersey: ASCD Journal*, Vol. 45, pp. 43-50.
- Saldutti, C. (2005) Embarking on a Science Expedition: Inquiring Teachers Want to Know. Dubuque, IA: *Fieldwork: Notes From an Expeditionary Learning Classroom*, Vol. XIII, Number 4, pp. 3-4.
- Saldutti, C., Springel, M., Ho-Shing, O. (January 2018). [Building a Robust Secondary STEM Continuum: Supporting Students from Project to Publication](#). *Clute Education Conference Proceedings*, paper #367.
- Saldutti, C. (January 2014) Next Generation Teaching & Learning Tools. Kuala Lumpur, Malaysia: *HOTS e-magazine*, pp. 6-7.
- Saldutti, C. (Fall 2014) [STEM Curricular Designs for an Information Age](#). *AdvancED: The Source, Teaching and Learning* (online).
- Saldutti, C. (January 2015) [Defining and Tracking Skills for Intentional Curriculum Design](#). Association of American Schools in South America (AASSA) Newsletter, pp. 71-75.
- Saldutti, C. (July 2017) [Open but not Free: Sustainable Open Educational Resources \(SOER\) in a Secondary/Polytechnic STEM Curriculum](#). *EDULEARN17 Proceedings*, pp. 6752-6760.
- Saldutti, C. (October 2017) [The Design Process Doesn't Work](#). *Learning Spaces*, Vol. 3.4, pp. 35-39.
- Saldutti, C. (January 2018) [Vision Matters: Sustaining an 18-year STEM EdTech Journey](#). *Clute Technology in Education Conference Proceedings*.
- Saldutti, C. (May/June 2019). [Equity and Representation in STEM: Giving students functional access to 21<sup>st</sup>-century STEM literacies](#). *Literacy Today*, pp. 8-9.
- Weinbaum, A., Allen, D., Blythe, T., Simon, K., Seidel, S., and Rubin, C. (2004) *Teaching as Inquiry: Asking Hard Questions to Improve Practice and Student Achievement*. New York: Teachers College Press.

## SELECT PRESENTATIONS

- The Association for the Advancement of International Education (AAIE)—Facilitated the EdTech Roundup at the 49<sup>th</sup> Annual Conference for Schools Heads from around the world and Bay Area start-ups (February 2015)
- The Association for American Schools in South America (AASSA)—Presented at the Spring Educators' Conference with teacher leaders Trish Beck & Erin Copeland, Teaching & Learning Director Amaris Obregon, to share experiences with and design of the [Integrated Science I course](#) launched in August 2013; Presented at the Spring Educators' Conference in Curacao (2014, 2015)
- The Association for Supervision & Curriculum Development (ASCD)-- *Concept Construxions & The Individualized Learning Assistant*, co-presented with Teachers for Learners (2008) and the staff of Perris Union High School District, CA (2011)
- California Science Teachers Association – *Stories in Statistics: Data Interpretation for Middle School Students* (2009)
- CAST's 5<sup>th</sup> Annual UDL Symposium—2 presentations, Boston, Massachusetts (2019)
  - No More One-and-Done: Re-engineering Secondary Assessment to Cue Lifelong Learning
  - Using a Sustainable Open Education Resources (SOER) Model to Build Recognition Networks
- The Chilean Ministry of Education--Presentation of Teachers for Learners instructional tools and EduChange projects, to the ENLACES department for Technology Education and Teacher Professional Development (2010)
- The 5<sup>th</sup> China Education Innovation EXPO—Invited by U.S. Commercial Services as a Presenter & Panelist representing U.S. EdTech Companies, Zhuhai, China (2019)
- The CLOSE IT Summit—Co-Presenter with Amy Freedman, Senior Trade Specialist for U.S. Commercial Services in the U.S. Department of Commerce, Santa Fe, NM (2019)
- EdTech Team Google Summit – Presenter, North Sydney, Australia (2017)
- Expeditionary Learning Schools—Designed and Led Residential K-12 and High School Science Institutes around the nation focusing on literacy, rigor and differentiated instruction:
  - Bainbridge Island, WA—5 day high school science institute (2004, 2005)
  - Seattle, WA—National Conference; led 4 Master Classes and structured discussion group (2005)
  - Boston, MA—5 day high school science institute (2005, 2006)
  - Minneapolis, MN—3 day K-12 science institute (2005)
  - Oakland, CA—National Conference; led 4 Master Classes and structured discussion group (2006)
  - Phoenix, AZ—3 day K-12 science institute (2006 & 2008)
  - Atlanta, GA—3 day K-12 science institute, in conjunction with The CDC (2007 & 2008)
  - Portland, ME—National Conference; led 4 Master Classes, full-day expedition slice, and structured discussion group (2007)
  - San Francisco, CA—3 day K-12 science institute, in conjunction with the SF Dept. of Public Health (2007)
  - Kansas City, KS—3 day K-12 science writing institute, co-led with Dr. Beverly A. Chin of the University of Montana (2008)
  - Denver, CO—National Conference; led 3 Master Classes, full-day expedition slice, and structured discussion group (2008)
- Global Education Conference—Presenter and Conference Sponsor (2014)
- High Education Partnership Conference, hosted by Partners of the Americas—2 presentations, Guanacaste, Costa Rica (2019)
  - Teaching All 17 Sustainable Development Goals (SDGs) Through STEM Education
  - Adult Education for the SDGs: Reaching Community Leaders Taking Action
- International Conference on Transnational Collaboration in STEAM Education—[3 presentations](#) and a Keynote Address, UNIMAS, Kota Samarahan, Sarawak, Malaysia (2013)
- The International Literacy Association Intensive on Equity & Access to Literacy—2 presentations, Las Vegas, Nevada (2019)
  - Want to Increase Equity and Representation in STEM? Give Students Functional Access to 21<sup>st</sup>-century Literacies
  - Closing Gaps, Providing Access, Equipping Teachers: The Administrator's Role in Increasing Equity in STEM
- The International Society for Technology in Education—4 presentations, Philadelphia, Pennsylvania (2019)
  - STEM Playground: Free, Authentic, Digital, Under-the-Radar STEM Resources for Secondary Classrooms
  - BYOD Session: Sustainable Open Education Resources: The Way Forward for Digital Curriculum Delivery
  - STEM Panel: Serving the Underserved through STEM: Experts Share Successes
  - Poster Session: Grades 8-12: Shifting from Siloed Science to Globally Relevant Integrated STEAM

- The Malaysian Ministry of Education –Invited Keynote Speaker at [\*Seminar Kreativiti Dan Inovasi Kurikulum\*](#), Kuala Lumpur, Malaysia (2013)
- The National Association for Research in Science Teaching (NARST)—2 presentations, Annual Conference (2004)
- The National Committee on United States-China Relations—Presentation to Chinese Ambassadors on standards-based education in the United States (2001)
- The National Council for Teachers of Mathematics (NCTM) *Concept Construxions*, co-presented with Teachers for Learners & Joshua Paris, Math Teacher, Brookline HS, MA (2008)
- The National Council of Teachers of English (NCTE) Crafting Writing to Deepen Reading Comprehension, co-presented with Dr. Beverly Ann Chin, Director of Writing Instruction, The University of Montana (2009)
- The National Science Foundation—*On Many Levels: Understanding the Impact of RET Programs on Students*, presented at the Research Experience for Teachers (RET) National Conference (2003)
- The National Science Teachers Association (NSTA), Annual & Regional Conventions
  - Assessing Process and Content in the Laboratory (2002)
  - Interactive Word Walls (2006)
  - Concept Construxions & The Individualized Learning Assistant, co-presented with Teachers for Learners (2007 & 2008)
  - Secondary Student Research Projects: Free Support from Planning to Publication (2019)
- The New York State STEM Collaborative—3 presentations at inaugural conference, New York (2010)
  - Text and Tech: Broadening Our Idea of Reading for Math & Science in The Digital Age
  - A System of Systems: Coordinating Math and Science Academic Vocabulary Through the Grades
  - The Ups & Downs of CO2: Using Mathematical Modeling to Explore A Real Scientific Data Set, co-presented with Bruce Mallory of Brookline High School, MA (2010)
- The New Zealand Ministry of Education—Presentation of EduChange proprietary science curriculum, *Investigations in Biology & Chemistry*, to the Project Manager of the New Zealand Curriculum Project, and to the Office of Education for Sustainability and Science (2007)
- OE Global Conference—2 presentations, Milan, Italy (2019)
  - The Change We Seek: An Invitation to Brainstorm and Collaborate to Advance SDGs in Local Communities
  - The Future is Here: Powering Lifelong Learning Architecture & Competency-based Education with Sustainable OER
- The Peruvian Ministry of Education—Presentation of Teachers for Learners instructional tools, to the Director of Technology Education and the Director of Secondary schools (2010)
- The Rockefeller University’s Science Outreach Program (Various sessions, summers 2001-2007)
  - Inquiry–based instruction: translation from research lab experience to classroom practice
  - Classroom Assessment
  - Program Evaluation
  - Scientist mentor-student & Scientist mentor-teacher relationships
- Shanghai Science Education Development Forum for Adolescents, Hosted by the Shanghai Association of Science & Technology and the China Association of Children’s Science Instructors—Keynote Speaker, Shanghai, China (2019)
- Thinking Schools International Annual Conference, UK---Presentation to Member Thinking Schools on Visual Tools for Content Learning (June 10-11, 2013)
- U.S. Commercial Service & Partners of the Americas Education Technology Certified Trade Mission to Columbia & Peru (2018)

## CERTIFICATIONS

- New York Provisional Certificate, Biology 7-12 Permanent
- Massachusetts Standard Certificate, Biology 9-12\* 1993-Life, \*Recertified in 1999
- California Prelim. Single Subject Teaching Credential, Life Sci. 1993-1998