



Ihor Charischak

Profile

A career mathematics educator who continues to pursue his passion for firing up teachers imaginations about how learning and teaching math with technology can be interesting, useful and empowering.

Education

- Columbia University Teachers College, New York, New York. M.A. degree in Computers in Education (October, 1982)
- Long Island University, Brooklyn, New York. B.S. degree in Mathematics (June, 1967)

Experience

Current

- Dynamic Math Classroom Press, Proprietor. (1985-present)
- Council for Technology in Math Education (CLIME) President. (1988-2019)
CLIME is an affiliate group of NCTM (1988-2019)

Mathematics Projects Manager (1990-2007)

Stevens Institute of Technology's Center for Innovation in Engineering & Science Education (CIESE), Hoboken, New Jersey

Major Projects

- New Jersey MATRIX 3-year Grant. (2004-2007) Subcontracted with the Passaic & Elizabeth Boards of Education. Staff development math curriculum and technology support
- CIESEmath Project (2002-2007) Client: Elizabeth (NJ) Board of Education. Staff Development in technology and mathematics for grade 6-8 teachers
Developed library of CIESEmath technology/math activities.
- IMATTT Project (1998-2001) Client: Paterson (NJ) Board of Education. Managed a three-year mathematics and technology teacher training collaboration with the middle school math teachers to help them integrate technology into their teaching.
- NJDOE Funded Project (1990-1993) Managed a three-year grant, which helped secondary mathematics teachers integrate technology into their teaching.
- Video-based Staff Development Program: "Mathematics and Technology: The Transition Years" (1994) Managed production jointly with New Jersey Network (NJN) and SERC.
- Noon Day Project (1998-2007) Created CIESE version of this on-line, worldwide collaborative project that has students measure the circumference of the Earth. Project continues twice a year.
- On-Line Course instructor (2002) Web Campus, Stevens Institute of Technology, Course Title: Introduction to the Development of Computer-Based Instructional Systems.

University Adjunct Instructor (1982-1994)

- Pace University, White Plains, NY. Course: Technology and Instructional Theory.
- Long Island University, Brooklyn and Rockland County Campus. Course: Creating Learning Environments with Logo
- New York University, New York, NY. Courses: Evaluation of Software, Programming in BASIC and Logo
- Fordham University, New York, NY. Courses: Teaching with Applications for classroom teachers.

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Customer Support & Trainer (1984 –1986)

- Logo Computer Systems Inc, New York, NY. Educational software: Logowriter.

Coordinator of Computer Education (1982 –1985)

- BOCES Regional Information Center, Tarrytown, NY. Developed and implemented curricular programs using computer technology for school districts in Westchester County, New York.

Manager of Software Development (1981–1982)

- Playing to Win, Inc, New York, NY. Responsible for designing and programming a library of over 100 instructional software programs in math and language arts.

Mathematics Teaching Experience (1967-1981)

Positions include:

- Brooklyn Friends School, Brooklyn, NY (1976-1981). Courses taught: Algebra II, Pre Calculus, and middle school mathematics.
- Columbia Preparatory School, New York, NY (1971-1976). Courses taught: Algebra I & II, Precalculus, History of Mathematics, 7th & 8th grade mathematics.
- Carteret High School, Carteret, NJ (1967-1970). Mathematics teacher.

Educational Consultant (1981-2014)

Clients included:

- Pleasantville School District, Pleasantville, NY. Computer Coordinator (P/T)
- Lego Systems Inc, Enfield, CT. Presentations and workshops introducing Lego TC logo to school districts.
- BOCES Regional Information Center, Tarrytown, NY. Workshop trainer in technology in education.
- Playing to Win, Inc, New York, NY. Programmer and Software Designer. Project: Developed a computer-based literacy curriculum for the Spofford Juvenile Detention Center, New York, NY.
- Kean University, Union, NJ. Consultant. Center for Innovation in Education. Math Ed Projects.

Other Related Professional Experiences

- Council for Technology in Mathematics Education (CLIME), Founder and President (1987-present)
- NCTM Technology 2005 Yearbook Editorial Panel. (2004-2005)
- Local Arrangements Committee, Technology Co-Chair. NCTM Annual Meeting, Philadelphia, PA (2004)
- Program Committee, Technology Liaison. NCTM Conference, San Francisco, CA (1999)

Publications

Books

- Creating Dynamic Stories with LogoWriter, Dynamic Classroom Press. (June, 1988)
- The Wannado Curriculum: A Math Teacher's Journey to the Dynamic Math 2.0 Classroom, iUniverse (February, 2015)

Software

- Microworlds Applets designed for Exploring Math with Microworlds EX. Wendy Petti, Logo Computer Systems Inc, (2005)
- CLIME Microworlds. Council for Technology in Mathematics Education (CLIME) - an affiliate group of NCTM
- Playing to Learn: Math/Logic Games. HRM Software, Pleasantville, NY, (1984)
- Logo Microworlds: Picture Puzzles (K-12 Micromedia, Ramsey, NJ, (1985)

Blogs

- CLIME Connections (2008-2019) - [link](#)
- Math 2.0: Scenes from a Dynamic Math Classroom (2008-present) - [link](#)

Articles

Partial list

- Mathematically Meaningful Mistakes: Using the “7 Times 13 Equals 28” Routine to Enhance Instruction, Don Ploger, Ihor Charischak, Agnes Nemeth (2012)
- Back to the Future: Teaching and Learning Math with Web 2.0, DMC Press, (2009)
- Software Stories: The Great Green Globes Contest, Math Forum, (2005)
- Measuring Heights or What Trigonometric Tables are all About, Making math Success Happen: Best of Learning and Leading with Technology on Mathematics, ISTE, (2003)
- A Look at Technology's Role in Professional Development of Mathematics Teachers at the Middle School Level School Science & Mathematics, (November, 2000)
- Bringing the Vision of 21st Century Collaborative Projects into Today's Mathematics Classrooms: paper presented at the Technology and NCTM Standards 2000 Conference, Arlington, VA, (June, 1998)
- In the Spirit of Eratosthenes – Measuring the Circumference of the Earth Learning and Leading with Technology, ISTE. (April, 1998)

Presentations

Highlights

- Inside a Math 2.0 Classroom (April, 2015), NCTM Conference, Boston, MA
- Math 2.0: A New Vision for Learning & Teaching Math (April, 2014), NCTM Conference, New Orleans, LA
- Math 2.0: Scenes from a Dynamic Math Classroom (April, 2012) NCTM Conference, Philadelphia, PA
- Math 2.0 and the Wannado Curriculum (January, 2012) Educon 2.4, Philadelphia, PA
- Math 2.0: Scenes from a Dynamic Math Classroom (June, 2011) ISTE Conference, Philadelphia, PA
- The "New" Dynamic Classroom: Teaching & Learning Math with Technology & Web 2.0 (January, 2009) Constructing Modern Math/Science Knowledge Conference, Philadelphia, PA
- The Dynamic Classroom: Teaching & Learning with Technology (June, 2007) NECC Conference, Atlanta, GA