

Robin Kay, PhD

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Moving the metre on the use of meaningful technology to enrich learning environments

A fundamental shift in the education system from a predominantly curriculum-based platform to a problem-based, technology driven learning environment is necessary to stay relevant and connected globally. Robin Kay, PhD, Director of Graduate Studies and Professor in the Faculty of Education at the University of Ontario Institute of Technology (UOIT) is advancing the use of technology to engage learning in face-to-face, blended, and online learning environments.

A cognitive science expert, Dr. Kay's research program examines how technology impacts human behaviour in a variety of ways. Through UOIT's EILab, he is exploring the effective use of video podcasts in online learning and mathematics at the secondary school level. At the post-secondary level, his research focuses on the benefits of video podcasts in administering student feedback. He is also examining the qualities for effective e-learning in high schools; the challenges and benefits of virtual classrooms within UOIT, and the use of social media tools in the classroom. Another major area of his research looks at the effective use of web-based learning tools for mathematics and science students Grades 3-8.

Dr. Kay has published over 120 articles, chapters and conference papers on the role of technology in education and developed highly effective technology based tools to enhance learning across a variety of platforms. His popular video podcast learning object module has helped thousands of new university students around the world review mathematics concepts from high school; and his research on the benefits of classroom response systems has prompted hundreds of elementary and secondary school teachers to adopt their use to increase student engagement and participation. His extensive research on laptop use and web-based learning tools in preservice education continues to influence classroom use of laptops in meaningful ways.

Dr. Kay joined UOIT as an Assistant Professor at its inception in September 2003. Previously, he taught mathematics, computer science and technology for over 20 years at the high school, college and university level in Canada and the United States. Fascinated by the relationship between technology and human behaviour, Dr. Kay pursued post-secondary studies at the University of Toronto earning his Bachelor of Science in Psychology and Computer Science in 1984, his Master of Arts in Computer Applications in Education in 1988, and his Doctorate in Educational Psychology in 1996.

Education/Learning, Social Media, Research, Program Development, Internet

Web-Based Learning Tools, Classroom Response Systems, E-Learning in Secondary and Higher Education, Video Podcasts, Laptop Use in Teacher Education

Ottawa District School Board

Best Practices for Using Classroom Response Systems in the Mathematics Classroom
OAME Annual Conference - Think Big

Best Practices for Developing Effective Online Course in Mathematics
Ontario Association for Mathematics Education (OAME) Annual Conference - Think Big

Choosing and Using Web-based Learning Tools for the Mathematics Classroom

OAME Annual Conference - Think Big

Transforming your Mathematics Classroom with Video Podcasts (Jing)

OAME Annual Conference - Think Big

Exploring the Use of Laptops in Higher Education: An Analysis of Benefits and Distractions

E-Learn 2012

A Model for Creating Effective Instructional Video Podcasts

Global Learn: Global Conference on Learning and Technology

A Model for Evaluating Online Learning in Secondary School Environments

The Sixteenth Sloan-C International Conference on Online Learning

Evaluating and Using Web-based Learning Tools for K-12 Online

The Sixteenth Sloan-C International Conference on Online Learning

Best Practices for Delivering Effective Instruction in Virtual Classrooms

Ed Media 2010, World Conference on Educational Multimedia, Hypermedia & Telecommunications

Evaluating the Use of Instructional Video Podcasts for Middle School Mathematics Students

Ed Media 2010

Examining the Use of Educational Video Clips on Distance Education

Global Learn Asia Pacific 2010

Exploring the Benefits and Challenges of Using Laptops in Higher Education Classrooms

Global Learn Asia Pacific 2010

University of Toronto

PhD Educational Psychology

University of Toronto

MA Computer Applications in Education

University of Toronto

BSc Psychology and Computer Science

Director, Graduate Studies, Faculty of Education, UOIT

Beyond his teaching and research, Dr. Kay aims to elevate UOIT's Master of Education program to one of the top online programs in North America, creating a vibrant international community.

Professor, Faculty of Education, UOIT

During his time at UOIT, Dr. Kay has received over \$240,000 in research funding from the Social Sciences and Humanities Research Council (SSHRC) and the Canadian Council on Learning. He is currently Dean of the Graduate Studies Committee and Chair of the Graduate Program Committee. Nominated for a UOIT Teaching Award, Dr. Kay previously served as an associate professor and an assistant professor.

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