

A Survey of Experimental Mathematics for Education

N.S. BORWEIN, Faculty of Education, Western University, Canada

VESELIN JUNGIC, Department of Mathematics, Simon Fraser University, Canada

Abstract. This paper offers a historical account of Experimental Mathematics education, a survey of Experimental Mathematics courses, research laboratories and environments, excerpts from our correspondence with luminaries in the field, and including an unpublished conversation with the late Jonathan M. Borwein (circa 2016).

Additional Key Words and Phrases: experimental mathematics, survey, laboratories, research centres, curriculum, syllabuses, two-eyed mathematical seeing, active learning, experiential, secondary, mathematics history

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1 Introduction

By experimental mathematics in education we mean a student-centred, instructor-moderated, (usually) computationally-assisted approach in teaching and learning mathematics that utilizes modern technology with objectives that include:

- (1) Gaining insight and mathematical intuition;
- (2) Visualizing particular mathematical facts through active learning and discovery based approaches;
- (3) Discovering and exploring mathematical relationships (while building a methodological approach for students);
- (4) Testing mathematical claims (with communal/collaborative project based tasks) for better understanding;
- (5) Exploring possible answers to a mathematical question to see which of them merits analytical proof;
- (6) Suggesting (developing) approaches for analytical proof;
- (7) Replacing lengthy and error-prone hand derivations and calculations with visualization and computation (keeping careful record for reproducibility); and
- (8) Checking analytically derived results (in an iterative process). [13]

This is a variation of a well-known definition of experimental mathematics as a computationally-assisted approach to mathematical research by Bailey and Borwein:

- (1) Gaining insight and intuition;
- (2) Visualizing mathematical principles;
- (3) Discovering new relationships;
- (4) Testing and especially falsifying conjectures;

Authors' addresses: N.S. Borwein, nborwein@uwo.ca, Faculty of Education, Western University, 1137 Western Rd., London, Ontario, Canada, N6G 1G7; Veselin Jungić, Department of Mathematics, Simon Fraser University, 8888 University Drive, Burnaby, British Columbia, Canada, V5A 1S6.

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