

THE MONTANA MATH ENTHUSIAST

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Editorial

The Montana Math Enthusiast (TMME) has been well received by MCTM members as well as the mathematics education community. The journal website has received over 3700 hits since the release of Vol.1, no.1 in April 2004. Numerous e-mails from pre-service and practicing teachers, as well as university educators commended the first issue. MCTM hopes that the e-journal is well on its way to becoming a familiar and useful resource in the field of mathematics education. Several changes are evident in this issue such as the official ISSN number for the journal as well as the inclusion of a Book Reviews section.

The theme and spirit of this issue is quite different from the first issue. The three feature articles in this issue tackle historical and contemporary geometry content and applications. In the first article Jonathan Comes generalizes the proof for the number of possible regular polyhedra to n-dimensional regular polytopes. In the second article Grant Swicegood constructs a simple and elegant proof to the Morley Trisector Theorem using basic notions from high school geometry. The third article gives the history and mathematics of Voronoi diagrams and illustrates the wide-ranging applicability of Voronoi diagrams to solve real world partitioning problems. Michael Mumm utilizes data from the Montana Natural Resource Information Systems GIS web-service to construct a Voronoi of northwestern Montana. It is hoped that this issue will particularly appeal to high school teachers who wish to enrich the geometry curriculum with the inclusion of modules that extend the scope of the curricula. University educators and mathematicians will also enjoy the rich mathematics contained in this issue. A special thank you to the geometers who reviewed the manuscripts published in this issue.

The Book Reviews section includes two reviews. Erica Lane contributes a long thoughtful and futuristic looking review of what is now considered a mathematics education classic, namely *The Nature of Proof*. I have also included a second, shorter review of *Mathematical and Analogical Reasoning of Young Learners*, the latest addition to the Studies in Mathematical Thinking and Learning series published by LEA. We hope you enjoy this issue.

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Aims and Scope

The Montana Math Enthusiast is the e-journal of the Montana Council of Teachers of Mathematics (MCTM). This biannual e-journal provides its readers with a lively blend of mathematics content, education theory and practice. The journal primarily addresses mathematics content in addition to the role of teaching and learning at all levels. Thematic issues will focus on mathematics content and innovative pedagogical practices with the hope of stimulating dialogue between pre-service and practicing teachers, university educators and mathematicians. The journal also strives to introduce research based as well as historical and cross-cultural perspectives to mathematics content, its teaching and learning. Submissions, Book Reviews, and offers for reviewing manuscripts are welcome. Authors are advised to send an electronic version of the manuscript in APA style to sriramanb@mso.umt.edu