Remarks

From the Editors

Dear Reader,

Thank you for taking a look at the second issue of *The Waterloo Mathematics Review*. We are greatly motivated by the positive feedback the first issue generated, and hope that this one will do the same. The second issue has brought considerable growth to the *Review's* organizational structure; we have more reviewers and an expanded general management staff. This issue also marks an important landmark for the *Review*: the first article submitted from outside the University of Waterloo. As the *Review* grows we become able to cover more areas of mathematics. While there is little overlap between the content of this issue and the last, there are still several subfields that are underrepresented. In particular, while mathematical physicists have been very active contributors, other applied mathematicians have been mostly silent. We strongly encourage students in mathematical finance, mathematical economics, mathematical biology, optimization in practice and theory, and computer science to submit articles to the *Review*.

In addition to looking for a greater diversity in submissions, we would like to see a greater diversity in readership. Several readers have commented that they only read one or two articles in the first issue. One reader commented that she did this because to her mathematics is a tribe of disciplines, connected by a common method and tool set. We disagree with this point of view, to us mathematics is a single work, diverse in its appearance and expression but fundamentally interconnected by more than just method. We submit as evidence the many places in mathematics where two seemingly unrelated theories are revealed to be facets of a common deeper theory. Finding and appreciating these interactions can only be accomplished with a broad study of mathematics, so we encourage you to read (or at least attempt to read) every article. We recognize that this may be a difficult task. As an example, suppose an author wishes to discuss algebraic geometry. To read and understand such an article article, you would need knowledge of ring theory and commutative algebra at the very least. Even if the article were relatively self contained it would not be practical to build up all of the necessary prerequisites. Striking a balance between accessibility and length of an article is a difficult task from the perspective of both an editor and a writer, and we will appreciate any future feedback regarding this balance.

We would again like to sincerely thank Dr. Frank Zorzitto for his continued guidance and support. Additionally, we would like to thank Dean Ian Goulden and the Faculty of Mathematics, the Mathematics Society, and *mathNEWS* for their financial and logistic support in the production of the second issue. We are also grateful for the actions of the 2011 CUMC Organizers, both for distributing the Review at the conference and for organizing an excellent conference; we wish the 2012 organizers similar success. Finally we once again thank our general manager Richard Zsolt for his work. This will be the last issue produced with him as general manager, and going into the fall the position is still vacant. We greatly appreciate his support through the early days of the project, and wish him all the best as he starts law school at Western this fall.

<div align="right">
Yours truly,
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</div>

From the Dean

Congratulations to the Editors-in-Chief of this second issue of *The Waterloo Mathematics Review*! It takes a lot of talent and dedication to tackle a project like this and be successful.

Talent and dedication are common traits among the students in Waterloo's Faculty of Mathematics. As Dean of the Faculty, I'm proud that students have developed this *Review* as a showcase. Readers will enjoy the selection of original articles and, I hope, be inspired to continue digging deeper into the challenging problems that define our discipline.

With best wishes for continued success,
Ian Goulden
Dean, Faculty of Mathematics

From the CMS Student Committee

The Canadian Mathematical Society's Student Committee (Studc) has been gaining momentum over the past couple of years. Our ongoing projects, such as the successful CUMC 2011 held in Laval and CUMC 2012 to be held in Kelowna at UBC Okanagan, are becoming more popular than ever. Also, we have introduced a number of new events at the semi-annual CMS meetings, and the upcoming 2011 CMS Winter Meeting, hosted by Ryerson in Toronto, promises to be an exciting conference filled with student-related activities. In addition to the always-popular student social, we are hosting a panel discussion on using mathematics to succeed in industry and also a professional CV writing workshop.

Feel free to check out our new and improved newsletter, "Notes from the Margin", and stay tuned for our newly redesigned website to be launched this Fall. For more information about the Studc, as well as information on our CUMC scholarship and our support for local conferences, go to our website: http://www.cms.math.ca/students.

The CMS Student Committee