



Pacific Institute *for the*  
Mathematical Sciences

# CMS/PIMS/IAM Public Lecture: Margot Gerritsen

14 January, 2013

University of British Columbia, Vancouver  
3:00 pm LSK Room 460

HOW DOES  GOOGLE? THE MATH BEHIND THE INTERNET  
Margot Gerritsen (Stanford University)

We all “Google”. You may even have found this talk by Googling. What you may not know is that behind Google and others’ search engines is beautiful and elegant mathematics.

Margot Gerritsen will explain the workings of page ranking and search engines using only rusty calculus.

Margot Gerritsen



*DR. MARGOT GERRITSEN is an Associate Professor and Director, Institute for Computational and Mathematical Engineering at Stanford University. Her research focuses on the design of highly accurate and efficient parallel computational methods to predict the performance of enhanced oil recovery methods with a particular interest in gas injection and in-situ combustion processes. Outside petroleum engineering, she is active in coastal ocean simulation, yacht research and pterosaur flight mechanics, and the design of search algorithms in collaboration with the Library of Congress and colleagues from the Institute of Computational and Mathematical Engineering.*



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