



**IMA** INSTITUTE FOR MATHEMATICS  
AND ITS APPLICATIONS

New Directions Short Course

## Applied Algebraic Topology

June 15-26, 2009

Instructors:

**Gunnar Carlsson** (Stanford University)  
**Robert Ghrist** (University of Pennsylvania)

From June 15-26, 2009 the IMA will host an intensive short course designed to efficiently provide researchers in the mathematical sciences and related disciplines the basic knowledge prerequisite to undertake research in applied algebraic topology. The course will be taught by Gunnar Carlsson (Department of Mathematics, Stanford University) and Robert Ghrist (Department of Electrical and Systems Engineering, Department of Mathematics, University of Pennsylvania). The primary audience for the course is mathematics faculty. No prior background in applied algebraic topology is expected. Participants will receive full travel and lodging support during the workshop.

For more information and to apply:  
[www.ima.umn.edu/2008-2009/ND6.15-26.09](http://www.ima.umn.edu/2008-2009/ND6.15-26.09)

**Application deadline: April 1, 2009**



The IMA is an NSF funded institute



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