

# CMI Senior Scholars Program

**The Clay Mathematics** Institute initiated its Senior Scholars program in 2003 with the appointment of Richard Stanley (MIT) and Bernd Sturmfels (UC Berkeley). Stanley and Sturmfels were the mathematicians in residence for the IAS/PCMI 2004 summer program on Geometric Combinatorics in Park City, Utah, directed by Herb Clemens. Since then fifteen other senior scholars have been appointed in areas ranging from algebraic geometry and number theory to mathematical biology and string theory.

The aim of the Senior Scholars initiative is to increase opportunities for research institutes and universities to secure the early commitment of one or two senior mathematicians to a topical program for a significant length of time, generally three weeks to three months. Through both formal and informal interaction with other participants, from lectures and seminars to lunchtime discussions of mathematics, senior scholars play a central role in the program.

Senior scholars are encouraged to give a public lecture that reaches an audience wider than that of the research program in which they participate. Some of these lectures are available online at [www.claymath.org/lectures](http://www.claymath.org/lectures): Richard Stanley, *Tilings*, Bernd Sturmfels and David Speyer, *Tropical Mathematics*, and Eric Zaslow, *PhySmatics*. A video of Stanley's lecture is available on request. Please write to [general@claymath.org](mailto:general@claymath.org).

Senior scholars are nominated by the sponsoring institute or university. For full consideration, nominations should be received by August 1. Nominations received at other times will be considered as funds permit. The host institution must not be in the nominees' area of residence. Nominations will be judged on the scientific impact of the program and the nominee's potential to contribute to it.

For more information, see [www.claymath.org/senior\\_scholars](http://www.claymath.org/senior_scholars)

Bernd Sturmfels – PCMI 2003, Geometric Combinatorics.

Richard Stanley – PCMI 2003, Geometric Combinatorics.

Peter Winkler – MSRI 2004, Probability, Algorithms and Statistical Physics.

Robert Bartnik – Newton Institute 2005, Global Problems in Mathematical Relativity.

David Donoho – MSRI 2005, Mathematical, Computational and Statistical Aspects of Image Analysis.

Nigel Hitchin – KITP 2005, Mathematical Structures in String Theory.

Leo Kadanoff – Fields Institute 2005, Renormalization and Universality and Mathematics and Mathematical Physics.

Simon Levin – PCMI 2005, Mathematical Biology.

David Morrison – KITP 2005, Mathematical Structures in String Theory.

Charles Peskin – PCMI 2005, Mathematical Biology.

Jean-Louis Colliot-Thélène – MSRI 2006, Program on Rational and Integral Points on Higher Dimensional Varieties.

Yongbin Ruan – MSRI 2006, New Topological Methods in Physics.

Eric Zaslow – Fields Institute 2006, String Theory.

Yakov Eliashberg – PCMI 2006, Low-Dimensional Topology.

Robion Kirby – PCMI 2006, Low-Dimensional Topology.

John Milnor – PCMI 2006, Low-Dimensional Topology.

Peter Newstead – Tufts–BU 2006, Joint Semester on Vector Bundles.