

## Gentile Lecturers

**2005**

**Dr. Marilyn Aardema**

**2006**

**Dr. Kellar Autumn**

**2007**

**Dr. Jeremy Edwards**

The Gentile Interdisciplinary Lectureship is supported by the Gentile Interdisciplinary Lecture Fund, an endowed Fund established at Hope College by friends, colleagues, and former students of Dr. Gentile. Gifts to this Fund are welcome and should be sent to the Hope College Advancement Office, P.O. Box 9000, Holland MI 49422-9000 with a note indicating the gift is for this Fund.



## **HOPE COLLEGE**

### **Gentile Interdisciplinary Science Lectureship**



**Dr. Jeremy Edwards**  
Assistant Professor  
Department of Molecular  
Genetics and Microbiology  
University of New Mexico

**Polony Sequencing: Current  
Applications and Future  
Directions**

**October 5, 2007  
4:00 PM  
VanderWerf Hall  
Room 102**

## SEMINAR SYNOPSIS

### Polony Sequencing: Current Applications and Future Directions

The resounding success of the Human Genome Project clearly illustrates how early investments in developing cost-effective methods of data acquisition can have tremendous payoffs for the biomedical community. We maintain that the completion of the human genome marks the end-of-the-beginning, rather than the beginning-of-the-end, of the era of nucleic-acid sequencing technologies. Polony sequencing is a process by which millions of DNA molecules can be sequenced simultaneously. Our ultimate goal is to use established polony genome sequencing technology to re-sequence a human genome within a week for less than \$1,000. To meet this goal, we continue improving the quality of sequencing data and further develop the computational tools needed to assemble a human genome sequence.

## DR. JEREMY EDWARDS



Prof. Edwards received his B.A. in Mechanical Engineering at the University of Texas at Arlington in 1995. He received his Master's degree and his Ph.D. in Bioengineering at UC San Diego in 1997 and 1999, respectively. He served in a post-doctoral position at Harvard Medical School from 1999 to 2000. He currently holds a joint appointment in Molecular Genetics and Microbiology and Chemical and Nuclear Engineering departments at the University of New Mexico.

**Refreshments will be served in the lobby of VanderWerf Hall prior to the talk.**

## GENTILE INTERDISCIPLINARY LECTURESHIP

In appreciation of his contributions to Hope College, this endowed fund was generously established in 2005 by faculty colleagues, former students and friends of Dr. James Gentile to support an annual interdisciplinary lectureship. Dr. Gentile joined the Hope faculty in 1976 and was Dean of the Natural Science Division from 1988 – 2005. Through his visionary and able leadership he helped bring national visibility to the Hope science programs. He has authored or co-authored more than 160 scientific publications, with over 100 undergraduates participating in his research program. Recognition of his work includes the North American Environmental Mutagen Society Alexander Hollaender Award for excellence in research and education and elected as a Fellow of AAAS. In 2005 Dr. Gentile was appointed president of Research Corporation, a private foundation that supports basic research in the physical sciences.

