

CoSM News!

BMS Anniversary Weekend

On October 28 and 29, 2005, the College of Science and Mathematics and the Biomedical Sciences Ph.D. Program office held a 25th anniversary celebration weekend to commemorate the establishment of the program. All 144 graduates of the program, faculty, staff and friends were invited to participate in the weekend's activities.

Distinguished Speaker

CoSM hosted one of the world's leading experts on seafloor hydrothermal systems and geobiological processes.

Deborah Kelley, Ph.D., University of Washington School of Oceanography and Astrobiology, visited as part of a Distinguished Lecturer Series, sponsored by WSU's Department of Environmental Sciences and the National Science Foundation.



Deborah Kelley

18 Days on the Research Vessel Thompson

Jeff Smigelski, an environmental sciences doctorate student, expressed an interest in this research field to Dr. Kelly during her visit. In September he was invited to observe the seafloor hydrothermal systems firsthand off the coast of Washington.



Smigelski spent 18 days with scientists on the research vessel Thompson that explored undersea volcanos in the Pacific Ocean. He served as a camera operator for an unmanned robotic submersible exploring black smoker chimneys on the ocean floor. Smigelski said it felt like he was actually on the ocean floor as he manipulated the camera

that is part of a \$5 million Keck Project to study the oceanic crust and the life forms that exist at such an extreme environment.

ART/SCIENCE Photography of David Goldes

Photographer **David Goldes** creates still-life photographs from scenes of scientific experiments that explore water, electricity, air movement, wind, and breath. Goldes manipulates and documents the phenomena to illustrate science's omissions, invoking metaphor, memory, narrative and emotion. The artist's first book, "Water Being Water," accompanied the exhibit and featured essays from prominent science and art writers **Philip Ball** and **Vince Leo**. CoSM co-sponsored this special exhibit in the Wright State University Art Galleries.

Nobel Laureate Speaker

Paul Lauterbur, who shared the 2003 Nobel Prize in Physiology or Medicine with **Sir Peter Manfield** for their pioneering discoveries concerning magnetic resonance imaging (MRI), was the 2005 Varandani Memorial Lecturer. Lauterbur's talk was titled "Mindsets: Why MRI Was



Paul Lauterbur

Delayed for so Long." Currently a faculty member at the University of Illinois, Lauterbur used nuclear magnetic resonance (NMR) to study molecules, solutions, and solids. He realized that by varying the strength of the magnetic field and analyzing the frequencies of the resulting radio signals, he could use NMR to create a two-or three-dimensional picture. This laid the foundation for what would become MRI, perhaps the most significant medical diagnostic discovery of the 20th century.

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Distinguished Speaker

John McMasters, Ph.D., a Boeing research aerodynamicist and American Institute of Aeronautics and Astronautics (AIAA) distinguished lecturer, recently gave a talk at WSU titled "Hooking Children on Math, Science and Engineering—An Aerospace Industry Perspective." According to the Boeing researcher, there is "the need for an aggressive means to replenish and sustain the pool of technical talent required to maintain an industry that continues to find a multi-billion dollar a year market for its products and services and which remains important to the continued growth of our global economy and national security."

World Year of Physics

"The Physics of Star Trek" was the title of a lecture given by **Dr. Lawrence Krauss** (physics chair, Case Western Reserve University) in conjunction with WSU's celebration of the World Year of Physics.



Dr. Lawrence Krauss

Celebrating Excellence

The annual CoSM Awards ceremony was held in June to recognize the accomplishments of faculty and students of the CoSM. Several students were awarded college and university level scholarships. Over the past year 429 undergraduate students received 1.8 million scholarship dollars while 71 graduate students received over \$450,000.

Noel Nussbaum, Neuroscience, Cell Biology, and Physiology, retired this year after 40 years at WSU. Noel was presented a commemorative CoSM/SOM chair in appreciation of his service to the university.

Faculty teaching awards were presented to **David Dolson**, Chemistry; **Martin Gooden**, Psychology; and **Suzanne Lunsford**, Chemistry. A Graduate Teaching Assistant award was presented to **Kristin Delgado**, Psychology.

Twenty-one honors students were recognized for their achievement; 13 graduated with general honors, four with departmental honors, and four with university honors.