

## Participants

David Brady	Duke University
Stephen Craig	Duke University
Paul Cremer	Texas A&M
Martyn Davies	University of Nottingham (UK)
Michael Grunze	Universitat Heidelberg (DE)
Jay Guo	University of Michigan
Martin Hegner	University of Basel (CH)
Jeffrey Hubbell	EPFL (CH)
Nan Jokerst	Duke University
Wolfgang Knoll	Max Planck Institut (DE)
Thom LaBean	Duke University
Anne Lazarides	Duke University
Graham Leggett	University of Sheffield (UK)
Gabriel Lopez	University of New Mexico
Piotr Marszalek	Duke University
Jurgen Plitzko	Max Planck Institut (DE)
Buddy Ratner	University of Washington
Monty Reichert	Duke University
Stephen Rimmer	University of Sheffield (UK)
Manfred Schmidt	Universitat Mainz (DE)
Duncan Sutherland	Chalmers Institute
Kaoru Tamada	Photonic Research Institute (JP)
Marcus Textor	ETH (CH)
Horst Vogel	EPFL (CH)
Phil Williams	University of Nottingham (UK)
Stefan Zauscher	Duke University

## International Symposium on Biointerface Science Registration Form

Name \_\_\_\_\_

Institution \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

City, State Postal Code \_\_\_\_\_

Country: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Do you have dietary restrictions ?

Yes \_\_\_\_; No \_\_\_\_\_

If so, what?

The ISBS will make hotel arrangements.

Do you require accommodation?

Thurs \_\_\_\_ Fri \_\_\_\_ Sat \_\_\_\_

Please Make Your Reservation by Email:  
[rick.sawyer@duke.edu](mailto:rick.sawyer@duke.edu)

Or fax this form to:

Rick Sawyer  
Box 90303  
Duke University  
Durham, NC 27708  
Fax: (919) 660-5409  
Phone: (919) 660-5286

## International Symposium on Biointerface Science

May 12-14, 2005

New Bern River  
Convention Center  
New Bern,  
North Carolina  
USA



Sponsored by:

Army Research Office  
Pratt School of Engineering  
Office of the Provost  
Duke University

## **You are Invited To Join Us**

The International Symposium on Biointerface Science (ISBS) is the first international meeting dedicated solely to the fundamentals of biomaterials interface science. Researchers in this field investigate the interface between biological and artificial surfaces – the interaction between nature's soft-wet materials and engineered hard-dry materials.

Biointerface science emerges at the intersection of materials and surface science, molecular and cell biology, engineering, and medicine. The frontiers of this field have been developed rapidly, established by engineers across the globe. Duke University's Center for Biologically Inspired Materials and Material Systems (CBIMMS) organized the ISBS with a twofold purpose: to map the contours of biointerface science, and to establish lines of communication and collaboration between scientists and engineers working at the very edges of that map.

The ISBS intends to join investigators and research program managers from academia and from industry with graduate and postdoctoral students in New Bern, North Carolina to discuss the future of this constantly evolving field.

## **Presentation Topics**

### **Nanoscale Biohybrid Materials Synthesis and Processing**

The symposium will address recent advances in polymerization techniques for the synthesis of smart polymers, concurrent advances in biological synthesis of stimulus responsive polypeptides and their marriage: the creation of unique, hybrid materials.

### **Biointerface Science**

ISBS will explore leading edge research into methods for immobilizing polymers and biomolecules at surfaces using surface-initiated polymerization, self-assembly, and post-translational modifications of biomolecules. Of special interest will be the experimental tools and theoretical models used to describe biointerface phenomena with physical concepts, and the development of rules that allow predictive, model-driven research.

### **Integration and Manufacturing**

Investigators will discuss how to integrate "soft-wet" material with "hard-dry" material on-chip to create the next generation of hybrid devices – including sensors, lab-on-chip devices, and self-reporting drug delivery devices that use the on-chip integration techniques pioneered in the opto-electronics area of research.

## **Program Agenda**

### **Thursday, May 12, 2005**

**5:00pm-7:00pm**  
**Reception & Dinner**  
**7:30pm-9:30pm**  
**Session I**  
**9:30pm Onward**  
**Social**

### **Friday, May 13, 2005**

**8:30am-12:00noon**  
**Session II**  
**12:00noon-3:00pm**  
**Lunch/Free Time**  
**3:00pm-5:00pm**  
**Session III**  
**5:00pm-7:00pm**  
**Dinner/Posters**  
**7:30pm-9:30pm**  
**Session IV**  
**9:30pm Onward**  
**Social**

### **Saturday, May 14, 2005**

**8:30am-11:30am**  
**Session V**  
**11:30am**  
**Adjourn**