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# Catalysis Club of Philadelphia

<http://www.catalysisclubphilly.org>

**Thursday, February 22, 2007**

Holiday Inn Select Hotel  
Naamans Road and I-95, Claymont, DE

## *"The Organic-Inorganic Interface in Synthesis and Catalysis"*

**Prof. Galen D. Stucky**

Department of Chemistry & Biochemistry and Materials Department  
University of California, Santa Barbara

**Social Hour**

**5:30 p.m.**

**Dinner**

**6:30 p.m.**

**Meeting**

**7:30 p.m.**

### **Menu:**

*Chicken Chesapeake - Lump Crabmeat and Kennett Square Mushrooms*

*Broiled Tilapia - With Cilantro Lime Beurre Blanc*

*Portabella Napolitano - Layers of Portabella Mushrooms, Grilled Vegetables  
and Smoked Mozzarella served over Basil Marinara*

Members	\$30.00
Walk Ins & Non-members	\$35.00
Students & Retired Members	\$15.00

For meal reservations, please notify your **company representative** or **Carl Menning** (phone: 302-893-9398, fax: 302-831-1048, e-mail: [menning23@gmail.com](mailto:menning23@gmail.com)) by **Thursday, February 15**.

**Company Representatives** – We would like to encourage you to make meal/meeting reservations to your company representative.

**Membership** – dues for the 2006-2007 season will be \$10.00 (\$5.00 for the local chapter and \$5.00 for the national club). Dues for students and post-docs will be \$6.00 (\$5.00 for local club and \$1.00 for national club). Please send your payment to Steve Harris, Lyondell Chemical Co., 3801 West Chester Pike, Newtown Square, PA 19073-2387.

**Next Meeting** will be held on Thursday, March 22, 2007. The speaker will be Dr. Andy Walker of Johnson Matthey. Student posters will be presented during social hour of March meeting.

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### *“The Organic-Inorganic Interface in Synthesis and Catalysis”*

**Prof. Galen D. Stucky**

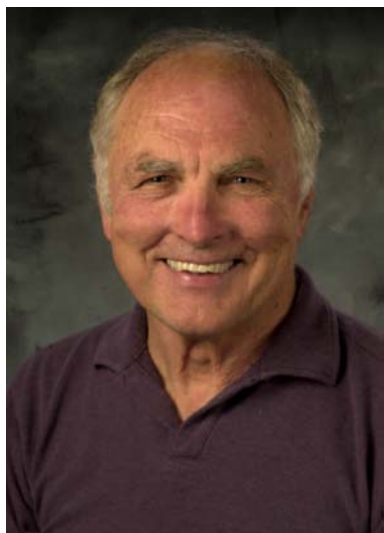
Department of Chemistry & Biochemistry and Materials Department  
University of California, Santa Barbara

#### **Abstract**

The greatest challenge in the creation of useful nanostructured materials, whether they be nanoparticles or nanosculptured 3-D networks, is in mastering interface definition. This determines the relationship between bulk and surface structure, emergent properties, the ability to selectively control domain dimensions on all length scales, the molecular assembly of multicomponent material systems, and ultimately the response of the materials as catalysts, or in electro-optic device applications.

This talk will review some of our efforts to develop strategies that make use of the organic-inorganic interface in materials synthesis, the design of multicomponent functionality in materials systems generated by molecular assembly, and the control of catalytic and bio-processes.

#### **Speaker's Biography**



Galen D. Stucky earned his Ph.D. degree with R. E. Rundle from Iowa State University in 1962. He held positions at the University of Illinois, Sandia National Laboratory, and DuPont Central Research and Development before joining the faculty of the University of California, Santa Barbara, in 1985, where he is Professor in the Department of Chemistry & Biochemistry and the Materials Department and a member of the Interdepartmental Program in Biomolecular Science and Engineering. His current research interests include molecular assembly of nanoscale to macroscale components of composite systems; the interface of inorganics with biomolecules; chemistry associated with the efficient utilization of energy resources; gradient materials and interfaces; understanding Nature's routes to organic/inorganic bioassembly. He has published over 600 scientific articles and has been awarded a dozen patents. Recent honors include one of three

lecturers at the Symposium in Honor of the 100th Anniversary of the Foundation of the Chemical Institutes at "Hessische Strasse" (2000), an Alexander von Humboldt Senior Scientist award (2000), the ACS Award in Chemistry of Materials (2002), and the IMMA (International Mesosstructured Materials Association) Award (2004). He was elected Fellow, American Academy of Arts and Sciences, in 2005.