



## Saudi Arabian International Chemical Sciences Chapter of American Chemical Society

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### March 2017 Technical Dinner Meeting



Presentation Title

**Droplet Chemistry**

Speaker

**Professor Richard Zare,  
Stanford University, USA**

Professor Richard N. Zare is the Marguerite Blake Wilbur Professor in Natural Science at Stanford University. Professor Zare is renowned for his research in the area of laser chemistry, resulting in a greater understanding of chemical reactions at the molecular level. By experimental and theoretical studies he has made seminal contributions to our knowledge of molecular collision processes and contributed very significantly to solving a variety of problems in chemical analysis. His development of laser induced fluorescence as a method for studying reaction dynamics has been widely adopted in other laboratories. Professor Zare has received numerous prestigious honors and awards among which are the 2011 King Faisal International Prize in Science (shared with George M. Whitesides) and the 2000 Nobel Laureate Signature Award for Graduate Education, American Chemical Society. Professor Zare has given named lectures at numerous universities, has authored and co-authored over 800 publications and more than 50 patents, and he has published four books

#### **Abstract**

One significant advantage of investigating reactions in microdroplets is that this technique allows to detect and identify fleeting intermediates in complex reactions. Another special feature of microdroplet chemistry is that the rates of some reactions can be accelerated by a factor of 1000 or more! An example is the reduction of ascorbic acid by dichlorophenylindophenol. Some speculations will be presented to account for this marked rate enhancement.

**Location:** Le Meridien Al-Khobar Hotel

**Date:** Sunday, March 05, 2017

**Registration:** 6:00 p.m.

**Presentation:** 6:30 p.m.

#### **Fees:**

SAICSC-ACS Members & Students: FREE

Guests: SAR 40

Online registration closes at 11:59 p.m., Saturday, March 04, 2017