



THE LONG ISLAND SUBSECTION
OF
THE NEW YORK AMERICAN CHEMICAL SOCIETY

Proudly presents

Dr. Zhou Zhou,

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Title of Talk: “Design and Total Synthesis of Self-healing Cyanine Fluorophores”

Synopsis: Small organic fluorophores are powerful research tools in biological imaging that have enabled unprecedented insights into mechanisms of bio-functions. Fluorescence applications as Single-molecule fluorescence resonance energy transfer (**smFRET**) requires high photo-stability and brightness of fluorophores. A series of cyanine dye molecules have been synthesized with significantly enhanced brightness, lifespan and water solubility by covalently attaching triplet state quenchers (**TSQ**) to the fluorophores along with other structural modifications. The advanced physical properties of these new fluorophores have already led to several previously impossible research projects, and shed light on both cellular and molecular processes masked by ensemble averaging in bulk investigations.

All are welcome!

When: Thursday April 2nd, 2020

Where: Queensborough Community College, Science Building Rm S-112

Time: 5:30 p.m. – Social w/ Light Refreshments; 6:00 pm – Seminar Start

Directions: <http://www.qcc.cuny.edu/about/driving.html>

After Seminar Dinner: At a nearby restaurant, \$25 per person.

