

SEMINAR SERIES

PHOTONICS INITIATIVE

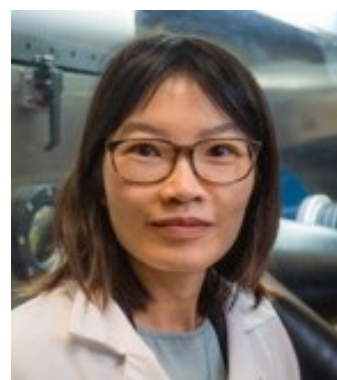
ADVANCED SCIENCE
RESEARCH CENTER
THE GRADUATE CENTER
CITY UNIVERSITY OF NEW YORK



Flexible Electronics to See Deeper and go Farther

Abstract – Printing with solution-processable materials is a versatile approach that can lead to devices that are economical and easily reconfigurable. Here we present the design and additive processing of polymeric materials to achieve optoelectronics and energy storage for Internet of Things applications. We will discuss two example use cases, including sensors for infrared imaging that enable deeper penetration depth and structural supercapacitors for energy storage. The presentation aims to summarize the key challenges and future opportunities of integrating polymer electronics in various remote sensing applications such as in motion detection and internet-of-things sensor networks.

Bio – Tina Tse Nga Ng is a Professor in the Electrical and Computer Engineering Department and affiliated with the Materials Science Program at University of California San Diego (UCSD). She received her B.S. in chemistry from Knox College and Ph.D. in physical chemistry from Cornell University. She started her career at Xerox Palo Alto Research Center, prior to joining UCSD in 2016. Dr. Ng is a Fellow of the National Academy of Inventors, recipient of the NSF Mid-Career Advancement Award, and appointed as a Distinguished Lecturer by the IEEE Sensors Council. She is currently an Associate Editor for the journals *Flexible Printed Electronics* and *IEEE Journal on Flexible Electronics* and serving on the editorial board of *ACS Applied Electronic Materials*.



TSE NGA (TINA) NG

University of California, San Diego

Date:

Tuesday November 28, 2023

Time:

11:00am – 12:00pm

Location:

ASRC Auditorium
85 Saint Nicholas Terrace
New York, NY 10031

Host:

Matthew Sfeir, Associate
Professor, Photonics Initiative,
ASRC, CUNY GC

This is an in-person seminar. If you opt to join via zoom use Zoom meeting ID 894 8139 7820, Passcode 739421

FOR MORE INFORMATION, VISIT
ASRC.CUNY.EDU/EVENTS
85 SAINT NICHOLAS TERRACE
NEW YORK, NY
ASRC.CUNY.EDU | 212.413.3300

