

SSLEEC's 8th Annual Review Conference
Thursday, November 3, 2022
Engineering Sciences Building (ESB), Conference Room 1001

7:30-8:30 REGISTRATION AND BREAKFAST ESB Courtyard

ESB, Room 1001

		Session Chair: Professor Steven DenBaars	Topic	MORNING SESSION I
F01	8:30-8:45	Steven DenBaars, Professor of Materials/ECE; Mitsubishi Chemical Chair in Solid State Lighting and Displays	Overview	Executive Summary and Center Research Goals
F02	8:45-9:05	Shuji Nakamura, Professor of Materials/ECE; Cree Chair in Solid State Lighting and Displays	LEDs/Laser Overview	Overview of LED and LD research
F03	9:05 – 9:25	James Speck, Professor of Materials; Seoul Viosys Chair in Solid State Lighting	GaN Materials	Studies of LED Efficiency
F04	9:25 – 9:45	Umesh Mishra, Professor and The Donald W. Whittier Chair, Electrical & Computer Engr.	PE Overview	P-type superlattice Finfets for Power conversion applications
F05	9:55–10:05	Chris Van de Walle, Professor, Materials; Herbert Kroemer Endowed Chair in Materials Science	LEDs/Simulation	Novel Nitrides

10:05-10:15 SSLEEC Group Photo by Jeff Liang at the ESB steps
10:15-10:30 Coffee Break in the ESB Courtyard

ESB, Room 1001

		Session Chair: Professor Chris Van de Walle	Topic	MORNING SESSION II
F06	10:30–10:50	Claude Weisbuch, Distinguished Professor, Materials	Fundamental Science	Carrier localization in InGaN alloy materials? Or not?
F07	10:50–11:10	Phil Christopher, Associate Professor, Materials and The Mellichamp Cluster Chair	Photocatalysis	Is there a role for LED-derived photons in driving industrial chemical conversions?
F08	11:10–11:30	Sriram Krishnamoorthy, The Mehrabian Career Development Chair Assistant Professor, Materials	Gallium Oxide	Beta Gallium Oxide Power Semiconductor Materials and Devices
S01	11:30-11:45	Dr. Nirupam Hatui, Postdoctoral Researcher	Porous GaN growth	MOCVD growth of relaxed, crack free AlGaN on porous GaN

11:45-1:00 LUNCH IN THE ESB COURTYARD
Served by UCSB Conference Dining & Catering

ESB, Room 1001

		Session Chair: Stacia Keller, Principal Development Engr.	Topic	AFTERNOON SESSION I
S02	1:00-1:15	Vincent Rieni	SRT LED	III-N Red LEDs on Si substrates via Strain-Relaxed Template by InGaN Decomposition Layer
S03	1:15-1:30	Hsun-Ming Chang	SRT LD	InGaN-based Edge Emitting Laser Diodes on Strain Relaxed Template
S04	1:30-1:45	Michael Wang	UV LED	UV LED Part I: Motivation, morphological control, and device performance improvements
S05	1:45-2:00	Yifan Yao	UV LED	UV LED Part II: Device structures and performance throughout the entire UV spectrum