

# WORKSHOP ON EMERGING TRENDS IN SEMICONDUCTOR TECHNOLOGY

August 22 - 23, 2024 | 330 Student Union, UB North Campus | Buffalo, NY

Emerging Trends in Semiconductor Technology is the first workshop hosted by the University at Buffalo's Center for Advanced Semiconductor Technologies. This workshop brings together academic, industry and community leaders to focus on developing:

- Energy efficient microelectronics to address the ever-increasing computing and communication requirements
- Novel widegap semiconductors for electric vehicles and power grids
- Advanced photovoltaic (solar) technologies to meet the growing energy demands while achieving a net-zero carbon footprint.

The UB Center for Advanced Semiconductor Technologies fosters multi-disciplinary collaborations between researchers to address pressing needs of modern computing, green automotives and clean energy.

## Our Speakers:

Kemper Lewis, *University at Buffalo*

Jonathan Bird, *University at Buffalo*

Venu Govindaraju, *University at Buffalo*

Ian Sellers, *University at Buffalo*

Joey Luther, *National Renewable Energy Laboratory*

Wanyi Nie, *University at Buffalo*

Uttam Singiseti, *University at Buffalo*

Rongming Chu, *Penn State University*

Jung-Hun Seo, *University at Buffalo*

Hao Zeng, *University at Buffalo*

Guo-Xing Miao, *University of Waterloo*

Huamin Li, *University at Buffalo*

Thirumalai Venkatesan, *University of Oklahoma*

Steven May, *Drexel University*

Sambandamurthy Ganapathy, *University at Buffalo*

Christiana Honsberg, *Arizona State University*

Karin Hinzer, *University of Ottawa*

Olga Wodo, *University at Buffalo*

Srabanti Chowdhury, *Stanford University*

Taylor Barton, *University of Colorado Boulder*

Baishakhi Mazumder, *University at Buffalo*



# AGENDA

## Thursday, August 22, 2024

- 8:30 **Opening Remarks**  
*with Jonathan Bird, Kemper Lewis and Venu Govindaraju*
- 9:00 **Photovoltaics Session 1**  
*with Ian Sellers, Joey Luther and Wanyi Nie*
- 10:35 **Coffee Break**
- 10:45 **Widegap-Semiconductor Session 1**  
*with Uttam Singisetti, Rongming Chu and Jung-Hun Seo*
- 12:20 **Lunch**
- 1:30 **Energy Efficient Microelectronics Session 1**  
*with Hao Zeng, Guo-Xing Miao and Huamin Li*
- 3:05 **Coffee Break**
- 3:20 **Poster Session**

## Friday, August 23, 2024

- 8:30 **Energy Efficient Microelectronics Session 2**  
*with Thirumalai Venkatesan, Steven May and Sambandamurthy Ganapathy*
- 10:20 **Coffee Break**
- 10:30 **Photovoltaics Session 2**  
*with Christiana Honsberg, Karin Hinzer and Olga Wodo*
- 12:20 **Lunch**
- 1:30 **Widegap-Semiconductor Session 2**  
*with Srabanti Chowdhury, Taylor W. Barton and Baishakhi Mazumder*
- 3:20 **Coffee Break**
- 3:30 **Closing Remarks**  
*with Jonathan Bird*