

# NCCAUS 2022 Technical Symposium

## *“Novel Materials, Processes, and Devices for a Green Future”*

**MEETING DATE:** February 17, 2022

**TIME:** 10:00 a.m. – 5:00 p.m. (PST) [TIMEZONE CONVERTER](#)

**LOCATION:** Fremont Marriott Silicon Valley (**FREE PARKING AT HOTEL**)

46100 Landing Pkwy.

Fremont, CA 94538

**FREE TO ATTEND!**

**[REGISTER FREE!](#)**

**Held in Conjunction with the**  
**[NCCAUS 42nd Annual Equipment Exhibition](#)**

**TIME:** 10:00 a.m. – 6:00 p.m. (PST) [TIMEZONE CONVERTER](#)

**Student Poster Session**

**TIME:** 3:30– 5:30 p.m. (PST) [TIMEZONE CONVERTER](#)

**Details available on any User Group Announcement Page:** <https://nccavs-usergroups.avs.org/>

## NCCAUS Health & Safety Plan

### REQUIREMENTS

**Face Masks Must be Worn:** An acceptable mask is made of at least two layers of breathable fabric or hospital grade material; fully covers the nose, nostrils, and mouth; fits firmly under the chin; and fits snugly, but comfortably against the side of the face.

**Social Distancing:** Be mindful of the social distance protocols and compliant with all posted instructions and signage. During meal service please keep your distance and use the many tables located throughout the exhibit and adjoining hallways and entry area.

The Northern California Chapter of the AVS will convene its 2022 Annual Technical Symposium around the topical theme of *“Novel Materials, Processes, and Devices for a Green Future”*. The Symposium will be held in person at the Fremont Marriott Silicon Valley in conjunction with the NCCAUS Annual Equipment Exhibition and Student Poster Session.

### AGENDA

**10:00 AM** Tim Gessert, AVS President

**11:15AM** Automated Analysis of Vacuum Processes Using Artificial Intelligence  
Dermot Monaghan, Joe Brindley, Benoit Daniel, Victor Bellido-Gonzalez, Gencoa Ltd

**1:30 PM** Cellular Signal Transmissive Energy-Saving Window Coating Low-E Technology  
Guowen Ding, Ping He  
Labforinvention Corporation

**2:10 PM** Context-based battery charging algorithm, an application of machine-learning/deep-learning to battery charging for longevity extension  
Naoki Matsumura, Intel Corporation

**2:40 PM** Open-Air Spray Plasma Provides Opportunities for Scalable and Low-Cost Materials and Device Processing  
Reinhold Dauskardt, Stanford University

**3:30 PM to 5:30 PM** Student Poster Session

The symposium will provide an international forum for academic researchers, industrial practitioners and engineers from around the world for the exchange of information on state-of-the-art research. The NCCA VS promotes the exchange of opportunities, ideas, friendly relationships and research collaboration.

**REGISTER FREE!**

***All presentations will be posted on the NCCA VS Users Groups Proceedings webpage within 2 weeks following the meeting.***

***If you would like to sponsor any 2022 User Group meeting, please check out our “NCCA VS Marketing/Sponsorship” opportunities at:***

**[NCCA VS User Groups Marketing Opportunities](#)**

**NCCA VS 2022 Technical Symposium - Program Committee**

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**Chris Malocsay** (Equipment Exhibition Chair and Technical Symposium Chair, [chris\\_malocsay@avs.org](mailto:chris_malocsay@avs.org))

**Zoran Misetic** (Past-Chair)

**Mehmet Baykara**

**Cesar Clavero**

**Michael Current** (JTG)

**Susan Felch** (JTG)

**David Hansen** (CMPUG)

**Michael Oye** (TFUG)

**Daphne Pappas** (PAG)

**Paul Werbaneth** (TFUG)

**Mayu Yamamura** (TFUG)