



34th Annual Symposium of the Pacific Northwest Chapter of AVS, The Science and Technology Society

**7-8 September 2023
Boise State University
Boise, Idaho**

Graduate Student Poster Competition
1st Place Award

\$ 500 Cash

+

\$ 500 towards the expenses to attend the
70th National AVS meeting in Tampa, FL in 2024

**Thermochemical Activity of Copper Hydroxy
Chloride: A Novel Thermochemical Energy
Storage Material**

Kavin Chakravarthy

Washington State University

Graduate Student Poster Competition

2nd Place Award

\$ 300 Cash

**Surface Dynamics of Bismuth Molybdates in
Selective Oxidation Reactions: Influence of
Substrate and Active Metal Dispersion**

Tanmayi Bathena

Oregon State University

Graduate Student Poster Competition

3rd Place Award

\$ 200 Cash

Scalable manufacturing of 2-dimensional and layered materials thin films

Michael Curtis

Boise State University

Graduate Student Poster Competition

3rd Place Award

\$ 200 Cash

**Investigation of acid dissociation of
acid at the airwater surface with Sum Frequency
Generation Spectroscopy**

Lila Musegades

Baylor University

Graduate Student Poster Competition

Honorable mention

\$ 100 Cash

**Interrogating the Growth Pathways of Anisotropic
Nanoscale Actinide Oxides**

William Vance

Washington State University

Graduate Student Poster Competition

Honorable mention

\$ 100 Cash

**Intrinsic and Atomic Layer Etching Enhanced Area
Selective Atomic Layer Deposition of MoS₂ Thin
Films**

Wesley Jen

Boise State University

Graduate Student Poster Competition

Honorable mention

\$ 100 Cash

Thermal Atomic Layer Etching of MoS₂ Films

H.D. Hues

Boise State University

Undergraduate Student Poster Competition

1st Place Award

\$ 350 Cash

**Automating X-ray Photoelectron Spectroscopy
(XPS) Peak Fitting**

Vanessa Bradshaw

University of Washington

Undergraduate Student Poster Competition

2nd Place Award

\$ 200 Cash

**Development of in situ hydrogen charging cells
for analyzing hydrogen
embrittlement mechanisms of materials**

Mengkong Tong
University of Washington

Undergraduate Student Poster Competition

3rd Place Award

\$ 150 Cash

**Aerosol Jet Printing: An Innovative
Additive Manufacturing Technique**

Alejandra Almaraz

Boise State University

Undergraduate Student Poster Competition

3rd Place Award

\$ 150 Cash

**Advanced Scanning Probe Microscopy
Characterization of Atomic Layer Deposited and
Etched TMDC Thin Films**

Benjamin R. Bailey

Boise State University

Undergraduate Student Poster Competition

Honorable mention

\$ 100 Cash

**Towards Plasma Enhanced Atomic
Layer Deposition**

Sivagya Kc

Boise State University

Undergraduate Student Poster Competition

Honorable mention

\$ 100 Cash

**Role of Post-Deposition Annealing on
Defectivity in 2D Materials**

Icelene Leong

Boise State University

*Outstanding Performance Award
High School Student Poster Presentation*

\$ 50 Cash

Anthony Donegan
Boise State University

*Outstanding Performance Award
For the Success of this Conference*

Boise State University Staff

Maya Duratovic

Kim Wilcox

Linda Kauffman

Denise Kimpson

Miguel Gorriceta

Graduate Student Poster Competition

Total Number of Posters: **20**

Science : Originality
 Impact
 Quality

Poster: Organization
 Clarity
 Appearance

Presenter: Explanation
 Ability to handle Questions

Judges:

1. **Prof. Matthew McCluskey**, *Washington State University*
2. **Dr. Ahmad Islam**, *Airforce Research Lab*
3. **Prof. Karthik Srinivasan**, *Boise State University*
4. **Dr. Sten Lambeets**, *Pacific Northwest National Lab*

Undergraduate Poster Competition

Total Number of Posters: 6

Science:	Impact Involvement
Poster:	Organization
Presenter:	Explanation Ability to handle Questions

Judges:

- 1.Prof. Liane Moreau, Washington State University**
- 2.Dr. Bhuvaneshwari M. Sivakumar, Pacific Northwest National Lab**
- 3.Dr. Lyndi Strange, Pacific Northwest National Lab**

Students: For your lodging reimbursement you need to send the following:

1. Copy of your hotel receipt
2. Name of your room mate
3. Your name
4. University Name
5. Your mailing address

Please send the email to :

Treasurer: Doug Jones at dlj9@comcast.net

and Ass. Treasurer: Theva Thevuthasan at theva@pnnl.gov

Award winners:

Please send your mailing address to Doug and Theva if you didn't get your check today:

dlj9@comcast.net and theva@pnnl.gov

Vendor Exhibit and Sponsors

We would like to thank the following sponsors for their generous contribution toward the success of this conference. Please visit the vendor exhibition. We greatly appreciate their support of this symposium!



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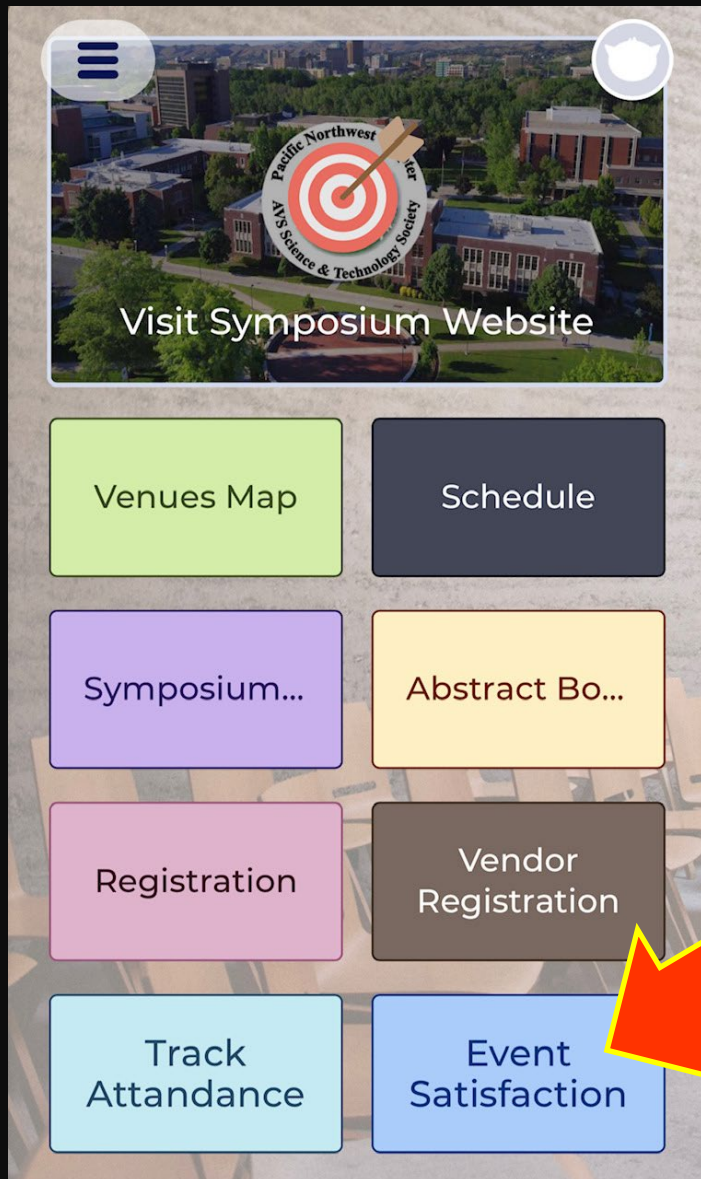
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Please Scan this QR code and do the two questions survey



See you all Next Year in Richland, WA



@ Shuttha Shots

Thank You All!!!!