Thursday, June 21 Undergraduate poster competition (*) High school poster competition (†) *Poster awards sponsored by Specs*		
Th-1	**Probing the size and environment induced phase transformation in CdSe quantum dots**	*Ajay Karakoti,* *EMSL at PNNL*
Th-2	**Atom probe tomography of oxides with embedded metallic nanoparticles**	*Arun Devaraj,* *EMSL at PNNL*
Th-3	**A study of influence of annealing on radiation tolerance interface of Cr-V and MgO(001)**	*Sandheep Manadahar,* *EMSL at PNNL*
Th-4	**Formation of silica-ceria, hybrid nanostructures for biomedical applications**	*Prabhakaran Munusamy,* *EMSL at PNNL*
Th-5	**Effect of interface spacing on radiation damage tolerance of metallic nanolaminates**	*Rama Vemuri,* *EMSL at PNNL*
Th-6	**Measurement of the Auger parameter of uranium compounds**	*Art Nelson,* *Lawrence Livermore National Lab*
Th-7	**Cathode, electro and photo – luminescence of silicon rich oxide films**	*Mariano Aceves-Mijares,* *INAOE*
Th-8	**A complementary approach to the chemical and structural characterization of graphene with Raman and x-ray photoelectron spectroscopy**	*Brian Strohmeier,* *Thermo Fischer Scientific*
Th-9	**Charge transfer induced chemical reaction of tetracyano-*p*-quinodimethane adsorption on graphene**	*Yun Qi,* *Washington State University*
Th-10	**Charge retention by monodisperse gold clusters on surfaces prepared using soft landing of mass-selected ions**	*Grant Johnson,* *Pacific Northwest National Lab*
Th-11	**Protonation state of pyrrolic nitrogens in meso-tetra(4-carboxyphenyl)porphyrin nanostructures formed in acid solutions**	*Yingte Wang,* *Washington State University*
Th-12	**Microstructural characterization of grey cast iron**	*J. P. Arul Mozhi Varman,* *Indian Institute of Technology*
Th-13	**Understanding mechanisms of extracellular respiration by metal reducing bacteria using ambient profiling with Nano-DESI MS**	*Brandi Heath,* *Pacific Northwest National Lab*
Th-14	**Investigation of acetic acid adsorption on ceria nanoparticles**	*Shail Sanghavi,* *EMSL at PNNL*
Th-15	**†Reduced infrared signatures**	*Maria Quintero,* *Sunnyside Highs School*
Th-16	**†Nanocrystalline cellulose: an emerging excipient for drug delivery**	*Sangeetha Thevuthasan,* *Kamiakin High School*
Th-17	**†Atmospheric CO_2 scrubbing: engineering greener tomorrow utilizing leaf-shaped materials and designs**	*Juan Rodriguez,* *Sunnyside Highs School*
Th-18	**†Effects of Ultrasound in removing bacteria from simulated prosthetics**	*Amanda Bestebreur,* *Sunnyside High School*
Th-19	**†Are environmental wipes more effective inhibiting bacteria on daycare center toys?**	*Jasmine Gonzalez,* *Sunnyside High School*
Th-20	**†Electrowetting for Novel Electromechanical Applications**	*Andrey Sushko,*

		Hanford High School
Th-21	†**Fuel cell outreach demo: an example of a project conducted by a high school student**	*Alexander Pizzirani, University of Washington*
Th-22	***Surface interactions of transient non-equilibrium D_2-plasma with transition metals**	*DuWayne Smith, University of Washington*
Th-23	***Layer-by-layer assembled nanoparticle catalyst multilayers for proton exchange membrane fuel cells**	*Isaac Rosenberg, Western Washington University*
Th-24	***Investigating the effect of particle geometry on the dissolution behavior of high level waste glass using sugar glass**	*Mayu Yamamura, Pacific Northwest National Lab*
Th-25	***Nanoarchitectured array tin oxide for low temperature hydrogen sensing**	*Rameech McCormack, University of Central Florida*
Th-26	***Structure and stability of molybdenum and vanadium polyoxometalate anions investigated by electrospray mass spectrometry and collision induced dissociation**	*Naila Al Hasan, Pacific Northwest National Lab*
Th-27	***Immobilized cerium oxide nanoparticles (CNP) on single and triple layered, self-assembled monolayers of poly(-4-vinylpyridine) (PVP) for detection of hydrogen peroxide**	*James Gaynor, Concordia University*
Th-28	***The effect of nitrogen flow rate on the structure and properties of sputter-deposited HfN coatings**	*R. Alan Espinoza, University of Texas El Paso*
Th-29	***The effects of co-doping on the ionic conductivity of samaria doped ceria thin films grown by molecular beam epitaxy**	*Quinn Langfitt, Washington State University*