**Art Conservation**

*Characterizing Nano-crystalline Phases in Archaeological Red Opaque Glass*

Kara Weisenburger, Chicago high School for the Arts, Chicago Public Schools

Professor: Mark Walton, NU-ACCESS

**Physics**

*Adhesives, A Sticky Situation - A Virtual Interactive Lab*

Melissa Zagorski, Lake View High School Chicago Public Schools

Professor: R.P.H. Chang, Materials Science & Engineering

**Nanoscience**

*Properties of Mechanically Exfoliated 2D Materials*

Benjamin Torrisi, Prospect High School, Township High School District 214

Professor: Lincoln Lauhon, Materials Science & Engineering

*LSPR of Non-spherical Nanoparticles*

Julie Smallfield, Lane Tech College Prep, Chicago Public Schools

Professor: Laurence Marks, Materials Science & Engineering

**Chemistry**

*Kinetic Modeling of Hydrolysis Chemistry in Aging Oil-Based Paints*

Martin Pieters, Kennedy King College, City Colleges of Chicago

Professor: Linda Broadbelt, Chemical and Biological Engineering