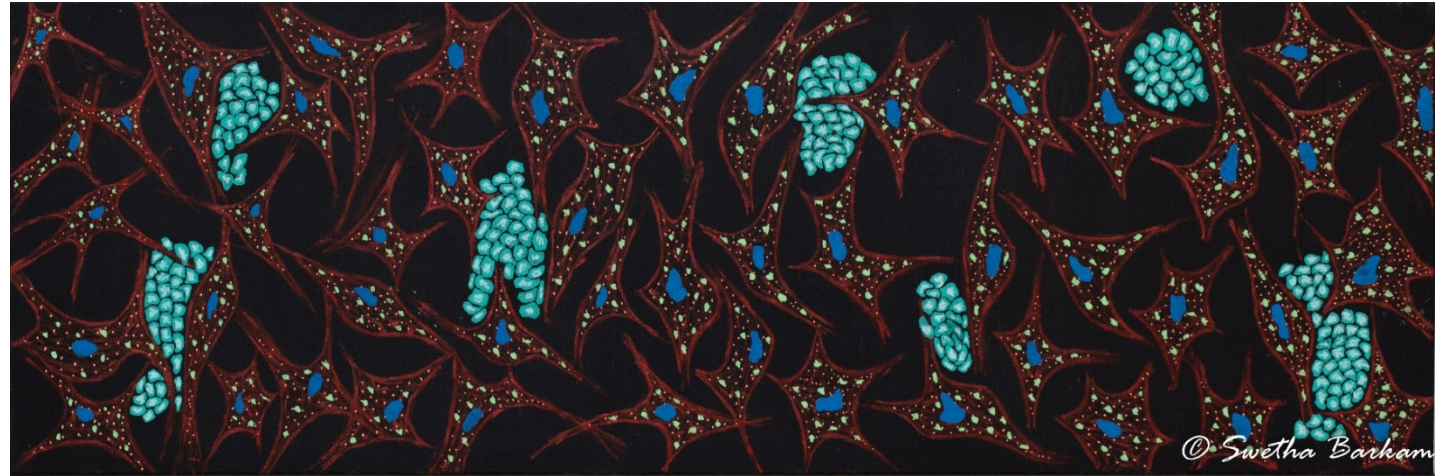


# ACerS PCSA 1<sup>st</sup> Creativity Competition (2016) – Winners



*2016's Scientific Creativity Award "EBSD Pendant" by Matt Michie*



*2016's Artistic Creativity Award "The Cell Culture Invasion" by Swetha Barkam juxtaposes biological life with art...inspired by an experiment gone wrong where bacteria started to grow with good cells*

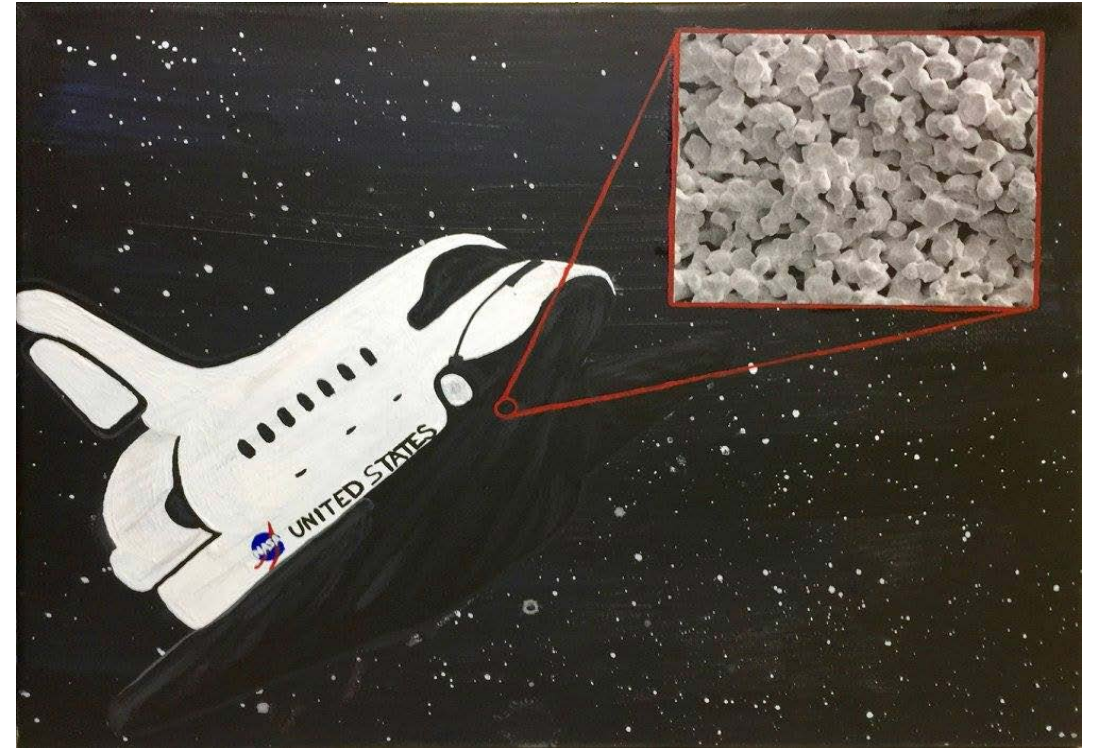


*2016's Viewer's Choice Award "Fused Jellyfish", by Ashley McClain*

## ACerS PCSA 2<sup>nd</sup> Creativity Competition (2017) – Winners



*2017's Artistic Creativity Award, "Blue Planet" by Laura Aalto-Setälä, juxtaposes blue glass globe with ice floe, making it look like ice is melting (indicating global warming)*



*2017's Scientific Creativity and Viewer's Choice Award "UHTC", by Catalina Young*



# ACerS PCSA 3<sup>rd</sup> Creativity and Microstory Competition (2018) – Winners



*2018's Artistic Creativity Award,  
"Skyward"  
by Briana Bennett*



*2018's Artistic Creativity Award,  
"Polar Crack"  
by Rodolfo Fernandez and Xialong Lu*

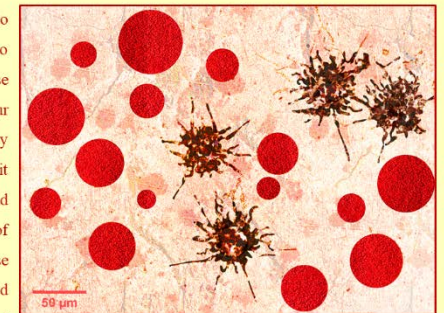
**2018's Creativity Competition resulted in  
a tie between the two artworks  
shown above.**

## **2018 Microstory Competition awardee shown below.**

*2018's Scientific Creativity Award,  
"Common Cold and Splats"  
by Sadhana Bhusal*

### **Common Cold and Splats**

Ugh-this common cold again, it's the third time this year- I say to myself, as I am trying to work with the optical microscope. Rhino virus I remember from my high school biology class. How these small viruses, in the range of nanometers, are able to weaken our immune system, I wonder. After looking into the splat morphology of plasma sprayed aluminum oxide through optical microscope, it got me thinking, how similar they look like red blood cells and viruses present in our blood stream. Splats are building blocks of plasma sprayed coatings. The shape and arrangement of these splats determine the properties of coatings. The disk shaped (circular) splats resembles the red blood cells and fragmented splats, resembles the shape of viruses. Just as the infection of viruses affect our blood cells and challenge our immune system, the fragmented splats, adversely affect the mechanical properties of coatings. This thought manifested the comparison of Rhino virus infected immune system to fragmented splats in plasma sprayed micro-structure. And, after a while, I realized I just found other ways to procrastinate my tasks. Back to work now....



*Splat Morphology of plasma sprayed Aluminum Oxide on low carbon steel observed by Optical Microscope at magnification of 200X*

