4TH ANNUAL PCSA CREATIVITY AND μ-STORY COMPETITION

If you are a student and would like to participate in this contest, submit your artwork/microstory along with the application form to **PCSACreative@ceramics.org**

Submissions accepted after **June 1, 2019**
Submission deadline: **July 31, 2019**

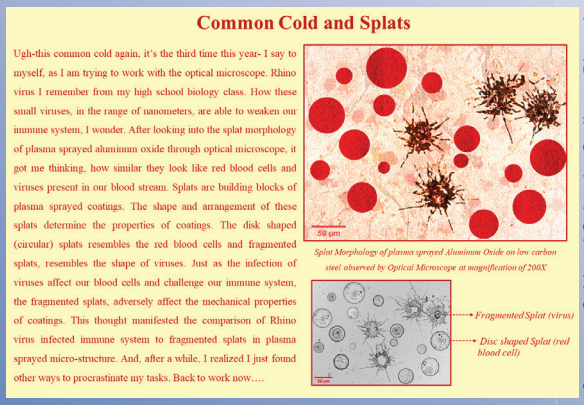
Possible Art Categories:

- Glass blowing
- Stained glass
- Pottery
- 3-D printing: Ceramic or glass
- Artistic painting of a ceramic-related image
- Digital 3-D rendering of a ceramic-related process
- Other ceramic or glass-related forms of art

Possible μ-Story Categories:

- Optical Microstructure
- SEM Microstructure
- TEM Microstructure
- AFM Microstructure

2018 μ -Story Winner



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

Common Cold and Splats by Sadhana Bhusal

Winning Categories: Creativity Competition

1. Artistic Creativity: We're looking for unique ceramics or glass inspired art that is attention grabbing and thought provoking!!
2. Viewer's Choice: We'll be showing off your art through PCSA social media! The submission with the most likes will win the Viewer's Choice Award.

Winning Categories: μ-Story Competition

1. Scientific Creativity: We're looking for entries based on style, originality, creativity inspired from your micrograph and/or illustrating technical difficult characterization techniques!
2. Viewer's Choice: We'll be showing off your art through PCSA social media! The submission with the most likes will win the Viewer's Choice Award

The American Ceramic Society
www.ceramics.org

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For more information and how to enter, go to ceramics.org/pcsacreative

Winning art pieces will be displayed in the ACerS booth during the MS&T19 Conference in Portland, Oregon, USA
Contact PCSA Delegate and Programming Liaison, **Anneliese Brenner** (alaskow@purdue.edu) or **Surendra Anantharaman** (surendrababu87@gmail.com) for more information