

# The Beams and Applications Seminar Series

## Surface Processing for High-performance Superconducting Cavities

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**Bldg. 401, Rm. A1100  
Friday, June 8, 1:30 pm**

Host: Yong-Chul Chae, ASD

*Abstract: SC cavities constitute the technology of choice for most ion and electron linac applications and have been developed at laboratories and institutions worldwide for both cw and pulsed applications. Cavity geometries span nearly the full range for particles with  $0.02 < v/c < 1.0$  and include TEM-class and elliptical designs. Rapidly evolving and improving clean surface processing techniques including electropolishing and clean room assembly have been applied to all of these structures and are resulting in dramatically increased performance, higher real estate gradients and lower rf losses for the next generation of SC linacs.*

For more information visit

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(kitching@aps.anl.gov, 630-252-6159) to arrange for a gate pass.