**Idaho State University  
Physics Colloquium**

***Superconductivity***  
  
Dr. Anton Voronstov  
Montana State University

Superconductivity is one of the most unusual states of matter that can be seen as a special liquid made from many interacting electrons. Once set in motion, this liquid can flow without energy dissipation, and thus without slowing down, forever.  The nature of this state is quantum mechanical, and by now we know that it appears in many materials, and even in some stars, but we are still in the process of understanding how it works.  The problem of superconductivity is interesting from both fundamental and practical perspectives. In this talk I will give an introduction to the phenomenon of superconductivity, and describe its origin and recent developments, as well as present and future applications.  
  
**Monday, February 22 2021**  
**Via Zoom(**[**https://isu.zoom.us/j/87371584140**](https://isu.zoom.us/j/87371584140)**)  
4:00 – 4:50 pm**