

**Polar Gateways Arctic Circle Sunrise 2008 Conference**  
**Barrow, Alaska, January 23-29, 2008**  
*<http://polargateways2008.org/>*

**Abstract**

**The Space Science Suitcase - Instruments for Exploring Near-Earth  
Space from the Classroom**

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The aurora and other phenomena in near Earth space, and radiation are becoming a considerable part of the science curriculum in upper secondary school (high school) in Norway. Introducing scientific methods to the young students is an important objective of the education, but experimental experience is mainly restricted to simple laboratory exercises under controlled conditions; observations of uncontrollable natural phenomena are generally left to academic scientists and researchers. The Space Physics Group and The Science Education and Outreach Group at The Department of Physics and Technology, University of Bergen, are constructing a "Space Science Suitcase" with a set of simple versions of instruments for monitoring solar and geophysical activity in near Earth space, including a magnetometer, camera with a fisheye lens, spectroscope, Geiger counter, solar telescopes, GPS-receiver and a laptop for collecting the measurements. The instruments will be lent to physics classes in upper secondary schools.