

## SPP in The Namiki High School of Ibaraki Prefecture ;The Theme of Palaeomagnetism;

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<http://www.namiki-h.ed.jp/index.html>

The Namiki High School of Ibaraki Prefecture performed the Science Partnership Project (SPP) in 2006, joined with the Geological Survey of Japan (GSJ), AIST. Although the school is the closest to the GSJ, no educational cooperation has been done up to present. This program focuses on the history of earth using palaeomagnetism and rock magnetism and outlined as follows.

Theme: Reconstruction of the global environment and change of the earth by using palaeomagnetism ;Introduction of the most recent palaeomagnetism study and sampling of sedimentary rocks,work-study of measurement of remanent magnetization;

### Contents

Objected students: Third-year students who choose the earth science in the humanities course.

Lecture1:What is the geomagnetism? Takeyuki Ueki. June 1st. Namiki High School

Lecture2:The latest topics of earth history study. Yusuke Suganuma. June 22nd. Namiki High School

Lecture3:The geomagnetism and the sun and the orgsnism. Hirokuni Oda. July 6th. Namiki High School

Lecture4:Study of sea floor and the palaeomagnetism. Toshitsugu Yamazaki. July 13th. Namiki high school

Field work:Sampling of sedimentary rocks,sketching of outcrop,measuring of dip and strike,enjoying the grand view of the Pacific Ocean. Takeyuki Ueki,Yusuke Suganuma. August 3rd. Choshi City Chiba Prefecture,Tsu-ren-do,Byobugaura,Inubosaki peninsula

Laboratory work:Measurement of remanent magnetization. Takeyuki Ueki,Toshitsugu Yamazaki,Yusuke Suganuma. September 7th-21th. Geological Survey of Japan (GSJ), AIST

Presentation:Poster session,panel discussion,comments,awarding seremony. Takeyuki Ueki,Toshitsugu Yamazaki,Yusuke Suganuma,Nobutatsu Mochizuki. October 19th. Namiki High School

### Contribution and future perspective:

Interdisciplinary teaching approach is required now for high school science teacher, so we performed the SPP in earth science. Joining high school with university and research institute would provide more geoscientist in near future. Even if students will not orient to science, they should have methods for solving problem from the SPP experience.