

STEM Outreach to Rural School Districts

Kopernik Observatory and Science Center (KOSC) is dedicated to bringing STEM education to students in our local schools. Although KOSC is a public observatory with an emphasis on astronomy, all of the physical sciences are considered in its pursuit. KOSC has a talented and dedicated staff with expertise in all aspects of STEM education. The approach used in KOSC STEM programs is experiential: "hands on and self-discovery". We at KOSC believe that student retention of concepts is maximized if a "learn by doing" approach is used. In addition, we believe that the STEM activities should be fun and inspire students to "reach for the stars."

With budgetary challenges that face our local schools, we believe that rural schools districts have been left in an even more difficult position than their city or suburb counterparts. We would therefore like to replicate, modify, and expand our successful STEM outreach programs to reach this population of students.

Our current outreach program primarily consists of three key components: Kopernik Observatory Days (KOD), "Kopernik on the Road" (KOR), and Scientific Skills Lab (SSL). These programs are described in the document "Kopernik STEM Outreach Programs." [Click here to download Kopernik Outreach](#)

This proposal will allow Kopernik Observatory staff to visit both Newerk Valley and Deposit School Districts approximately fourteen times each. We will teach students in grades 5-8 using variety of hands on science activities and labs. These activities will be designed and created by Kopernik staff and science teachers from both school districts at a summer teacher workshop.

KOSC will collaborate with professors from Binghamton University School of Human Development to provide additional pedagogical expertise. We will also utilize the School of Human Development's graduate students to provide fresh insight. These students come from diverse backgrounds themselves and represent the future of teaching. We also believe that by co-opting university students in this project, we will be harnessing their youthful enthusiasm. We want them to gain valuable experience and bring their zeal to the overall project.

In order to accommodate each school's learning environment and curriculum objectives, participating science teachers will come to KOSC for a Summer Teacher Workshop. Beginning in mid-August, this two day workshop will allow teachers and Kopernik staff to collaborate and create the necessary activities. KOSC has already received input from teachers and administrators from both Newerk Valley and Deposit school districts. Below are activities and grade levels that would participate.

Scientific Measuring Lab 6th grade

This lab would be based on our 6th grade Scientific Skills Lab (SSL) but would utilize four different measuring stations:

- **Meier Stick:** Students create their own meier stick by using pre-cut foam pieces. Students will be able to replicate various measuring situations that demonstrate the

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