

## 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 5<sup>th</sup> grade

This lab would be based on our 5<sup>th</sup> 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

# Sample Stem Grant Narrative

**E Durkheim**



## **Sample Stem Grant Narrative:**

## Reviewing **Sample Stem Grant Narrative**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Sample Stem Grant Narrative**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web  $p_1 v_1 u_1 v_2 z_1 q p_2 v_2 u_2 v_2 z_2 w p_1 v_1 u_1 h_1$  enthalpy of steam at inlet  $p_2 v_2 u_2 h_2$  enthalpy of steam at exit  $h_1 v_2 z_1 q h_2 v_2 z_2 w$  generally changes in potential energy are negligible  $z_1 z_2$  if no heat is supplied from the surroundings then  $q = 0$

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