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# 2010 Sonia Kovalevsky Math for Girls Day Report

Association for Women in Mathematics, Lincoln University of Missouri

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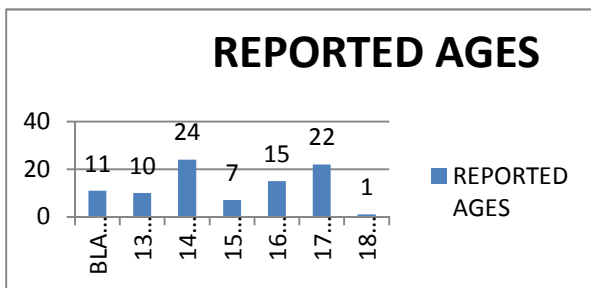
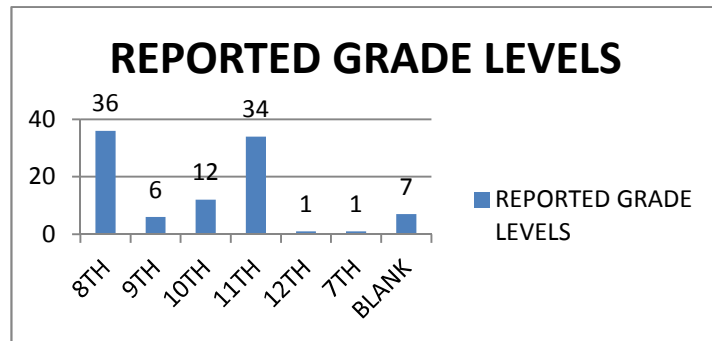
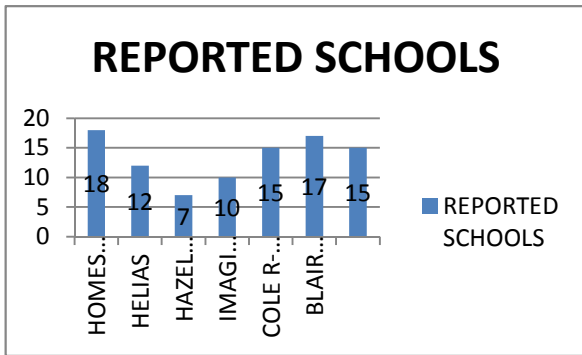
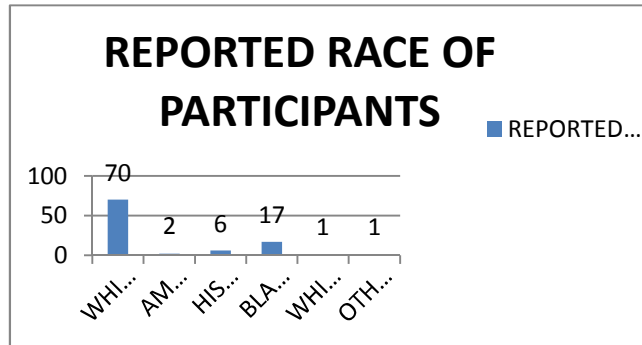
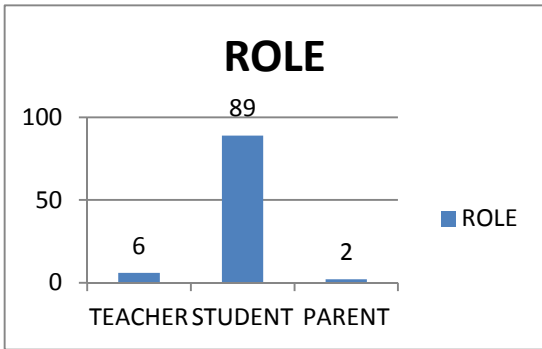
## SONIA KOVALEVSKY MATH FOR GIRLS DAY REPORT

The Fifth Annual Lincoln University Sonia Kovalevsky Math for Girls Day was held April 23, 2010 from 8:00am to 2:00pm on the campus of Lincoln University in Jefferson City, MO. Prior to the event, Lincoln University posted registration information for teachers and parents interested in attending the event. In addition, both Mrs. Donna Stallings and Shirley Sanders attended the Missouri Council of Teachers of Mathematics in December 2009 in Columbia, MO and hosted a booth that advertised the upcoming event. Participants were allowed to sign up to be on the mailing list and received information about the registration deadline and other pertinent information. Teachers/Parents registered online, printed their registration forms, and then faxed or emailed them to either Mrs. Downey or Siegler. Registration ended on March 23, 2010 with 106 students and 16 parents/teachers registered from:

- Jefferson City, MO – Helias High School,
- Jefferson City, MO - Thomas Jefferson Middle,
- Russelville, MO – Cole R-I/Russelville Middle
- Jefferson City, MO – Jefferson City Home Educators,
- Fulton, MO – Fulton Home Educators
- Columbia, MO – Columbia Homeschool Educators
- Kansas City, MO – Imagine Renaissance Academy
- Hazelwood, MO – Hazelwood East High School
- Blair Oaks High School

Our initial goal was to register 100 young ladies and their teachers and we were excited that we met and exceeded that goal long by the registration deadline of March 23, 2010. This year's event required each school to include a \$20 registration fee with the registration form. Schools were asked to send a list of student names so that certificates could be designed prior to the event. A registration fee was instituted to offset costs of the program and in light of the loss of the grant usually received by the Association of Women in Mathematics. The fee was also instituted to discourage schools from backing out at the last minute. While the fee is not a large commitment, we did notice that none of the schools backed out, which was an occurrence every year in the past. On the day of the event, 97 young ladies arrived along with their teachers and parents. Over 95% of the students completed surveys and provided beneficial suggestions for future Math Days.

## PARTICIPANT/TEACHER ATTENDANCE INFORMATION



The following information was compiled from biographical information reported by participants. All participants did not complete the forms and in some cases some participants answered only some of the questions asked. The information includes responses from students and their teachers/parents.

Due to a prior commitment, our President, Dr. Carolyn Mahoney, could not attend this year's event. Dr. Ruthi Sturdevant, the Dean of the College of Behavioral and Technological Sciences opened the event with a welcome to start the day off on the right foot. The Center for Academic Enrichment assisted with registration (Mrs. Cara Holliday and Stephanie Clark assisted Mrs. Julie Siegler). Teachers/Chaperones were handed an envelope that included lunch tickets as well as participation certificates for each participant. Students were asked to sign up for two workshops, one at 10am and another at 11am. Once parents, teachers, and students received a name tag and a giveaway bag, they were invited to enjoy muffins,

bagels and water to prepare for their minds for the upcoming team competition. Students entered Langston Hughes Theater and enjoyed a few moments of music and a video of past Math Day activities. The movie was created using Movie Maker and included music and audio PSA's provided by the AdCouncil and Naa'nac Productions. After the opening, LU volunteers guided students to testing rooms.

Teachers and parents received a copy of the program a week prior to the event to share with their students. This was a great idea as many students were more aware than before about what to expect. The program was sent as a result of past evaluation comments by participating teachers. Students were already divided into teams of 2 – 3 and separated by grade levels for the team competition. (Grades 9 – 12 High School Level, Grades 6 – 8 Middle School Level) While students participated in the team competition, teachers/parents attended a workshop sponsored by Ameren UE Women in Nuclear-Next Evolutionary Revolutionary Scientist (WINNERS) "Save the World" program. The workshop provided information about the local contest and inside information about how to succeed and have the chance to win up to \$2000 as a prize for a submitted project.

After the Team Competition students had the opportunity to choose from seven different seminars. Each seminar was limited to 16 students to allow speakers to provide more individual attention and hands on activities.

## SEMINAR SPEAKER INFORMATION

### STUDENT SEMINARS

Ms. Janese Neher

PE Region IV Women In Nuclear

Female, White

Mrs. Michelle Brown, Assistant Pathologist

Size Does Matter

Female, African American

Ms. Amy Fawks, LU Student

Build A Web – website design using Microsoft Expression Web Software

Female, Caucasian

CPT Dement, LURUTC Faculty

Orienteering

Male, African American

Ms. Janet Long, LU Nursing Department Faculty

Calculating Medication Doses

Female, Caucasian

Mr. Patrick Daugherty, NASA Educator

Going to Mars or Beyond?

Male, Caucasian

Ms. Ruth Turner, LU Environmental Major Student

Transform It: more than meets the eye.

Female, Caucasian

Maria Vasko, LU Math Education Major

Transform It: more than meets the eye.

Female

Ms. Cara Berhorst, LU Math Education Major

Edible Statistics

Female, Caucasian

Ms. Rebecca Struempf, LU Mathematics Education Major

Edible Statistics

Female, Caucasian

Teachers/Parents participated in a workshop with Ameren UE describing their WINNERS program and then were given one hour to visit a workshop with their students. During the 11:00am hour, parents/teachers received information from the Missouri Department of Transportation about their summer

engineering camp held on Lincoln's campus.

#### TEACHER SEMINARS

Ms. Janese Neher

PE Region IV Women In Nuclear

Female, White

Ms. Chelsy McDowell, Missouri Department of Transportation

MoTOR Missouri Teaching Out- Reach

Female, African American

For the first time during this event, participants ate in the LU cafeteria. Students were given more food choices and were allowed to eat in the dining area or upstairs in the ballroom. After lunch, all participants moved up to the LU Ballroom for the presentation of awards.

At the close of the day, awards were provided to teams of students who scored the highest on the math team competition. Each young lady received a participation certificate.

Featured Activity: Orienteering

Presenter; CPT Dement

#### Evaluation of the Event:

A wrap up committee meeting was held Monday April 26, 2010. The participants included Donna Stallings, Dr. Ruthi Sturdevant, Debbie McGovney, Melinda Downey, and Julie Seigler. Comments about the event included the following:

- a. Choose a Co-Coodinator from the college
- b. Alert Dr. Mahoney's secretary a year in advance
- c. Rotate speakers and send out invitations 6 to 8 months in advance.

Dr. Zshvetta Jones, Local MD

FAA presenter

Mr. Eugene Matthews

NSA presenter

Sharon Ray, KMIZ Meteorologist

- d. Continue the registration fee, but increase the fee from \$20 to \$25 per school.
- e. Decrease the number of participants per school to 12 instead of 15 to accommodate more schools.
- f. Seek additional funding early from NASA, TI, and Walmart.
- g. KJLU has committed to providing \$1500 for 2011.
- h. Secure a new test creator for grades 10 – 12 in preparation for Mrs. Kabiri and Phil Embree's departure suggestion – Brenda Reed and Joe Schaefer
- i. Use mathematics education students to stuff bags and volunteer the day of the event.
- j. Calculators are allowed, but will not be provided to participants.
- k. Confirmation letter should include a map, statement about the calculator usage, directions about choosing workshops and teams early, directions about how to practice working in groups, parking,
- l. Programs will include a small guide to classrooms on the back
- m. All faculty and participating staff will eat in the cafeteria with participants and speakers

Additional comments from participants included;

Host a math for boy's day

Allow schools to bring more than 15 students