

GSDSEF NewsNote

Greater San Diego Science and Engineering Fair
P.O. Box 120191, San Diego, CA 92112-0191

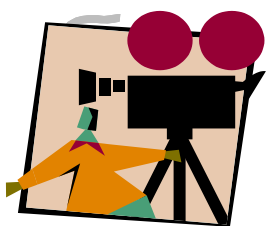
www.gsdsef.org

VOLUME 13

NUMBER 2

APRIL 2002

Director's Cut GSDSEF 2002



by

**SHIRLEY PARRISH
DIRECTOR, GSDSEF**

The 48th Annual GSDSEF is now in the history books. To students, teachers and screeners - thank you for providing the highest quality of projects available! 787 of San Diego and Imperial Counties' best were on exhibit March 20 - 24.

The consensus is clear - it was the smoothest Fair in recent history! The main reason? The many helping hands of volunteers and Student Advisory Board (SAB) members! A very special thanks to all those who gave their time and energy!

I hope everyone reading this had an opportunity to visit

the Fair at one point - whether it was to see your students register and set up projects, peruse the Fair during its open hours or attend the Awards Ceremony, Family Day or tear-down. If you did, you saw the results of thousands of hours of planning and labor. My deepest and sincere gratitude to the Management Committee and Student Advisory Board members whose efforts were instrumental in the continued success of the Fair.

For the Management Committee and the Student Advisory Board, Fair week started on Saturday the 16th. It was Fair Setup Day. Tables needed to be covered, extension cords installed. The Information Center and Souvenir Shop had to be assembled and stocked! Lots of work had to be done but it was completed in record time thanks to the many SAB and volunteers who assisted.

The next major step of the week? Registration Day -- Tuesday. Five stations were established to funnel students from one necessary task to another.



Student Advisory Board
Planning GSDSEF 2002

Station 1 was the Size and Safety Checkpoint. All projects were checked to ensure they met GSDSEF size and safety requirements.

Cleared projects then proceeded to Station 2 - Registration, where SAB members manned the six computers. After registering and receiving their ID badges and other materials, the students proceeded to their assigned booth numbers, also known as Station 3, to put their projects in place.

Station 4 was the site to sign up for tours. There were seven to choose from this year: Sea World, San Diego Supercomputer Center, UCSD Structural Engineering Lab, San Diego Zoo, Solar Turbines, Marine Biology Laboratory and the UCSD/Scripps Institute of Oceanography Marine Physical Laboratory - Tour of FLIP.

Then it was on to Station 5 - The Souvenir Shop. Shirts -- polo, judges' and 2002 long

sleeve -- were available, as were clipboards, pens, mugs, programs, key chains, coolers, blankets and other items. All proceeds benefited the Fair.



Judging Day

As if Tuesday were not a long enough day, Wednesday, as always, proved even longer. Preparations for Judging Day begin at 6:30am! With so many things going on at once -- two student meetings, two long judging sessions, lunches to be served, awards information to be processed, etc, it is a day we plan and plan for -- and keep our fingers crossed that all turns out according to plan. With the wonderful assistance of the SAB and the parent/teacher volunteers, every plan worked better than anticipated. Much of our anticipatory nervousness faded, thanks to them. Even the much-dreaded switch to parading nearly 800 students back and forth across Park Avenue for meetings and lunch went off without a hitch.

The Awards Ceremony was Thursday night -- at Cox Arena, a great venue for a wonderful ceremony. If you've never been to the Awards Ceremony, you don't know what you're missing! It is a great opportunity for students to cheer for their peers. The

Cox staff commented favorably on the loud cheering -- equaling that at the basketball games they host. I can't think of a better compliment from them! There are very few opportunities for students to cheer academic accomplishment in such a manner. I am proud to be part of one. I know you are, as well.



Cox Arena Stage -
Awaiting the Winners

Saturday brought Family Day - fun and education for all. The San Diego Zoo brought some animal ambassadors: Betty the Boa Constrictor, Cutie the Agouti, Pepe the Toucan, Skink Floyd the Blue Tongued Skink and Rosie the Tarantula. Carol Penner and Robin McLaughlin were the Zoo educators who taught Fair guests about the ambassadors.



The Splash Mobile
Children's 10Mobile



Two Biomed Science Shows (put on by Animania and Mad Science) also entertained

and educated the guests. The Splash Mobile (provided by the San Diego Water Authority) and the Children's 10Mobile, parked curbside in front of the Fair, provided hands-on activities and information.

Family Day was the last chance to purchase raffle tickets. Raffle prizes included: Gift Certificates to area restaurants (94th Aero Squadron, Anthony's Fish Grotto, Dino's Gyros, The Fish Market, Henry's Marketplace, Islands, Karl Strauss Breweries, King's Fish House, Marie Callendar's, Mimi's Café, Old Spaghetti Factory, Paseo del Tamarindo, P.F. Chang's China Bistro, Prime 10 Steakhouse, Roppongi, Sammy's Woodfired Pizza, Seau's the Restaurant, Seau's Raw Mana and Tom Ham's Lighthouse), tickets to Southern California attractions (AMC Entertainment, Disneyland Resort, Family Fun Center, Hornblower Harbor Tour, San Diego Padres and Six Flags Magic Mountain), autographed items from the San Diego Padres and San Diego Chargers, family camping tent and sleeping bags and the most coveted prize - a gas powered scooter (valued at \$450)! All the raffle prizes were generously donated. Thank you to our donors!

Sunday evening brought the conclusion of the Fair. A great group of volunteers and SAB were on hand to ensure the orderliness of project and Fair teardown. It's sad to see so many backboards (approximately 70) left behind by students who put so much hard work into their projects. We

have no place to store backboards left behind, so where do they end up? In the trash dumpster. Please keep this in mind for next year to save wear and tear on us and heart-break for the kids.

Once again, congratulations! Best of Luck! Many thanks! I look forward to seeing many GSDSEF repeat exhibitors in 2003!

The Winners! The Winners!

Thursday, March 21,

2002 - Awards Night! Who will be the big winners be? Who will receive the coveted Sweepstakes honors, the Fred H. Rohr Award, the S.D. Oceans Foundation Award, the...well, you get the idea! The suspense is high, the anticipation crackling in the air. With each name that appears on the big screen behind the stage, the cheering grows louder and more intense - even after hundreds of first, second, third and fourth place names have had held a place of honor.

While, unfortunately, it isn't possible to list all the award winners, we are proud to include in this issue of News-Note a compilation of the big winners, those receiving major Special Awards and/or Sweepstakes/Sweepstakes Alternate honors.

Special Awards first. Two new \$1500 awards, the

Student Advisory Board Outstanding Achievement and Service Scholarship and the Management Committee Distinguished Service Award, were presented to active Student Advisory Board members whose contributions to the Greater San Diego Science and Engineering Fair were deemed particularly noteworthy. The winners were: SAB Scholarship, Azlynn Hare and Management Committee Award, Blair Beverly. Congratulations!

Student Advisory Board Honor Society Awards for clarity of presentation went to Lea Cohen, grade 8 (Project #515), of Soille San Diego Hebrew Day School (teacher, Julie Reynolds) - "The Even-Handed Teacher" and Arturo Torres, grade 12 (#225), of Crawford High (Susannah Cox) - "Effects of Diarrhea Relief Herbs on E. coli."

Eight special awards were presented by the Biomedical Research Institute of America - to Kort Gibson, grade 7 (#926), St. John's (Chris Kuhn) - "Are You Eating Metal?"; Daniel Greenberg, grade 8 (#530), Marshall Middle (Amanda West) - "How Can Drag be Decreased on an Object?"; Francisco Tejada, grade 8 (#593), Del Dios Middle (Janet Nordeen) - "Which Conditions Affect the Lactase Dehydrogenase Enzyme?"; Emily Koch, grade 7 (#980), All Saints Episcopal (Wendy Wilson) - "Garlic and Bacteria Inhibition;" Christine Cabal, grade 12 (#110), Mt. Miguel High (Larry Nordell) - "The Subconscious Acquisition of

Cognitive Knowledge;" Greg Albritton, grade 10 (#213), Clairemont High (Jim Patzold) - "Lung Capacity: Athletes vs Musicians;" Oksana Sergeeva, grade 9 (#132), Torrey Pines High (M. Livingston) - "Effects of Thiols on Transformation of dUMP into dTMP and Citlali Villalobos, grade 12 (#244), Mt. Miguel High (Larry Nordell) - "An Important New Strain of Sacchcromyces cerevisiae Created Using Biotechnology."

Citali Villalobos

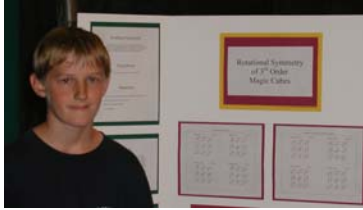


The Fred H. Rohr Science Award was presented to Andrew Redman, grade 10 (#187), Torrey Pines High (Vicky Coordt) - "Development of a Shape Memory Alloy Controlled Household Chimney Damper;" the San Diego Oceans Foundation Award to Virginia Dick, grade 9 (#231), Pt. Loma High (Judith Reith) - "Use of Flocculants to Mitigate the Number of Cells in an Algae Bloom" and the Reuben H. Fleet Science Center Award to Milena Andzelm, grade 12 (#216), San Diego High (Tim Towler) - "Growth Factor Rescues Cell Growth Following Bcr/Abl Inhibition by ST1571."

The final series of awards began with the Sweepstakes Alternates.



Ryan Ponec



Javid Pack

In the Junior Division (grades 7 and 8), the four alternates were Colleen Lopez, grade 7 (#624), St. Francis of Assisi (Jonathan McLeod) - "Growing Crops Using Recycled Water and Biological Filtration;" Ryan Ponec, grade 8 (#558), The Rhoades School (Roxanne Hunker) - "Effects of a Student-Generated Lesson Summary on Retention;" Jess Rucker, grade 8 (#694), The Rhoades School (Roxanne Hunker) -- "Absorption of Aluminum and Iron from Cookware" and Javid Pack, grade 8 (#900), Lewis Middle (Bill Miller) - "Relational Symmetry of 3rd Order Magic Cubes."



Milena Andzelm

The Senior Division (grades 9 - 12) Alternates were Citali Villalobos (see above), Milena Andzelm (see above), Jacob King, grade 11 (#183), La Jolla High (Martin Teachworth) - "Partial Area

Array Flip Chip Methodology and Automation" and Daniel Whisler, grade 11 (#157), Central Union High (V. Bower) - "Molecular Mass of a Volatile Liquid."



Rebecca Levin



Matthew Bauer

And then it was time - time to announce the four Junior Division and four Senior Division Sweepstakes winners.



Katherine Stephens-Doll



Jess Rucker

In the Junior Division they were Christopher Khavarian, grade 8 (#979), Preuss (Nancy Ko) - "Are Penicillin-Resistant Bacteria Resistant to UV Light?"; Rebecca Levin, grade 8 (#940), La Jolla Country Day (T. Smith) - "Effects of UVB on P53 Wild Type and Null Cells;" Katherine Ste-

Stephens-Doll, grade 8 (#1103), Children's Creative and Performing Arts Academy (C. Shea) - "Effect of Differentiating Droplet Size on Rainbow Brilliance" -- and Matthew Bauer, grade 7 (#745), Warren-Walker (J. Napolitan) - "Critical Variables of an Effective Solar Box Cooker - Phase II."

Senior Sweepstakes winners were:

Hanna Wisniewska



Taiwan Trip
Presented by the Taiwanese American Foundation of San Diego

Hanna Wisniewska, grade 11 (#226), Torrey Pines High (V. Atkinson) - "Stability of Oxytocin and its Analogues Against Chymotrypsin"



Sonia Gupta

\$2500 Scholarship
Presented by the Biomedical Research Institute of America

Sonia Gupta, grade 10 (#124), Torrey Pines High (Vicky Coordt) - "Novel Activities Generated through Original Mutagenesis Approach"

International Science and Engineering Fair Trips
Presented by Intel

Harish Khandrika, grade 10 (#173), La Jolla High (Martin Teachworth) - "Evidence for Decay of 44 Titanium to 44 Calcium"



Noel Lopez

Noel Lopez, grade 9 (#184), Mt. Everest Academy (Jim Edwards) - "Original Electric Motor Designs"

ISEF, Here They Come!

Harish Khandrika and Noel Lopez will represent San Diego at the Intel International Science and Engineering Fair. The 53rd Annual ISEF will be held in Louisville, KY May 11-18, 2002. Look for Shirley's report on our delegation's experience in our next NewsNote.

106 To Vie for Honors at the CSSF

106 First Place winners will compete for new honors at the California State Science Fair in Los Angeles. Watch for results in the next NewsNote.

2002
GSDSEF Stats

In answer to many questions, following are the official "statistics" of the 2002 Greater San Diego Science and Engineering Fair:

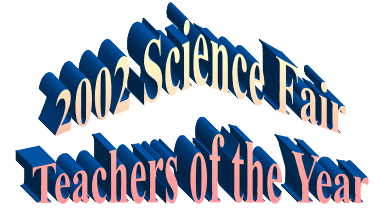
Number of Projects Invited to Apply - 784 (118 Senior Division, 666 Junior Division) - selected from among 10,000 - 12,000 exhibiting in school fairs

Number of Participating Schools - 112 (30 San Diego City, 35 San Diego County, 6 Imperial County and 41 Private and Parochial)

Number of Students in Each of the Above Categories - San Diego City, 384 (51 Senior, 257 Junior), San Diego County, 205 (54 Senior, 151 Junior), Imperial County - 19 (8 Senior, 11 Junior) and Private and Parochial - 252 (2 Senior and 250 Junior)

Number of Place Awards Presented - 190 1sts (40 Senior, 150 Junior), 227 2nds (38 Senior, 189 Junior), 211 3rds (25 Senior,

189 Junior) and 114 4ths (8 Senior, 106 Junior)



Two of the top awards presented at the Greater San Diego Science and Engineering Fair each year are to the Teachers of The Year, one in the Junior Division, one in the Senior. All exhibitors have the opportunity to nominate their teachers for this honor and their letters are evaluated by the members of the Fair's Honor Society, the Student Advisory Board.

This year's winners were:

Roxanne Hunker

The Rhoades School
and

Martin Teachworth

La Jolla High School

Congratulations!

NewsNote

Volume 13, Number 2
April 2002

Mary Domb Mikkelson
Editor