

# EXHIBITORS LIST

| <b>Company name</b>                          | <b>Booth #</b> | <b>Organization</b>                                    |
|--|----------------|--|
| Lab-Aids Inc.                                | 200            | Bose Corporation Harmony In Education                  |
| PASCO Scientific                             | 201            | Calif. Dept. of Fish & Game/ Project Wild              |
| Amsco School Publications                    | 202            | Calif. Society for Biomedical Research                 |
| Animania - Explorations In Animal Science    | 203            | California Forest Products Commission                  |
| Educators Financial Service                  | 204            | California Foundation For Agriculture In The Classroom |
| Ring of Fire                                 | 205            | California Mineral Education Foundation                |
| Walt Disney Company                          | 206            | CSTA   |
| GLOBE FEARON Educational Publishers          | 207,209        | Dairy Council of California                            |
| Ward's Natural Science                       | 208            | Last Chance For Animals                                |
| Steck-Vaughn Publishing                      | 212            | San Diego Astronomy Association                        |
| San Diego County Water Authority             | 213,312        | San Diego Maritime Museum                              |
| Bio-Rad Laboratories                         | 214            | San Diego Natural History Museum                       |
| Birch Aquarium at Scripps                    | 215,314        | San Diego Turtle & Tortoise Society                    |
| Teachers Financial Services                  | 218            | San Diego Zoo & Wild Animal Park                       |
| Carolina Biological Supply Company           | 220            | Seeds For Change Humane Education                      |
| Prentice Hall                                | 300,302,304    | Sky Hunters  |
| FOSS - Delta Education                       | 305,307        | U.S. Fish & Wildlife Service                           |
| Hands On Elementary School Science           | 306            |  |
| Qwizdom Inc.                                 | 308            |  |
| LEGOLAND California                          | 309            |  |
| Science Kit & Boreal Laboratories            | 313,315        |  |
| Acorn Naturalists                            | 401,403,405    |  |
| Glencoe/McGraw-Hill                          | 404,406        |  |
| Em-Cal Scientific                            | 407,409        |  |
| Pitsco/LEGO Education Division               | 408            |  |
| Stamping Till Dawn                           | 412,414        |  |
| Nasco-Modesto                                | 413,415        |  |
| Scott Foresman Publishers                    | 500            |  |
| School Technology Resources                  | 501            |  |
| Sargent-Welch/CENCO                          | 502            |  |
| Ag Experience                                | 503            |  |
| Harcourt School Publishers                   | 504            |  |
| A+ Auto & Home Ins. Plus/California Casualty | 505            |  |
| ETA  | 506            |  |
| Western Aerosol Information Bureau, Inc.     | 507            |  |
| California Institute For Biodiversity        | 509            |  |
| Vernier Software & Technology                | 512            |  |
| Sing-Smart Creative Musical Curriculum       | 513            |  |
| Reuben H. Fleet Science Center               | 514            |  |
| Zahourek Systems                             | 515            |  |
| Science 2 Discover                           | 519            |  |
| Klein Educational Systems                    | 521            |  |



| FRIDAY   | TIME                | ROOM               | WORKSHOP                  |
|----------|---------------------|--------------------|---------------------------|
|          | 8:00 am - 4:00 pm   | Golden Hall        | Share-A-Thon              |
|          | 8:30 am - 9:30 am   | Copper Room        | Doctor Wilderness         |
|          | 10:00 am - 11:00 am | Copper Room        | Michael Klentschy Ph.D.   |
|          | 12:00 pm - 1:00 pm  | Copper Room        | D. Tucker & P. Lafontaine |
|          | 12:00 pm - 1:00 pm  | 250                | Diane Hernandez           |
|          | 1:30 pm - 2:30pm    | Copper Room        | David Seidel              |
|          |                     |                    |                           |
|          |                     |                    |                           |
|          |                     |                    |                           |
|          |                     |                    |                           |
|          |                     |                    |                           |
|          | 3:00 pm - 4:00 pm   | Copper Room        | D. Tucker & P Lafontaine  |
| 5:00 pm  | Copper Room         | Door Prize Drawing |                           |
| SATURDAY | TIME                | ROOM               | WORKSHOP                  |
|          | 8:30 am - 1:00 pm   | Golden Hall        | Share-A-Thon              |
|          | 8:30 am - 12:30 pm  | Golden Hall        | Exhibitor Bingo           |
|          | 8:00 am - 10:00 am  | Copper Room        | P. Lafontaine & D. Tucker |
|          | 11:00 am - 12:00 pm | Copper Room        | Michael Klentschy Ph.D.   |
|          |                     |                    |                           |
|          |                     |                    |                           |
|          |                     |                    |                           |
|          | 1:30 pm - 2:30 pm   | Copper Room        | Doctor Wilderness         |
| 2:00 pm  | Copper Room         | Door Prize Drawing |                           |

**Science: Connecting Literacy, Achievement and Standards SDSEA 18th Annual Conference  
Presenters Index**

| Last Name     | First Name | Day | Last Name  | Day        |         |     |             |
|---------------|------------|-----|------------|------------|---------|-----|-------------|
| Logan         | Michael    | 208 | Fri 3PM    | Taylor     | Dean    | I   | Fri 10AM    |
| Markey        | Donna      | 227 | Fri 12     | Taylor     | Stella  | 209 | Fri 8:30AM  |
| Markey        | Donna      | 227 | Fri        | Teachworth | Martin  | J   | Fri 10AM    |
| Marriott      | Adrienne   | E   | Fri 3PM    | Teachworth | Martin  | J   | Fri 12      |
| Marriott      | Adrienne   | E   | Sat 11AM   | Teachworth | Martin  | 208 | Sat 8AM     |
| Martin        | Myrna      | 252 | Sat 8AM    | Teachworth | Martin  | 208 | Sat 9:30AM  |
| Mason         | Wes        | 250 | Fri 3PM    | Tomlinson  | Barbara | 209 | Sat 9:30AM  |
| Massey        | Dave       | C   | Fri        | Tucker     | Deborah | 228 | Fri 12      |
| Mau           | Scott      | 208 | Fri 12     | Tucker     | Deborah | 228 | Fri 3PM     |
| Mendez        | Gilbert    | 206 | Sat 9:30AM | Verner     | Doug    | C   | Fri 12      |
| Mogollon      | Margarita  | 209 | Fri 3PM    | Weschlaub  | Rachel  | 206 | Fri         |
| Mogollon      | Margarita  | 202 | Sat 1PM    | Weschlaub  | Rachel  | 206 | Fri 12:30PM |
| Motschall     | Kathy      | B   | Sat 11AM   | Welte      | Jon     | I   | Sat 11AM    |
| Nagy          | Alex       | 207 | Fri 8:30AM | Westermo   | Bruce   | E   | Sat 8AM     |
| Nelson        | Cynthia    | H   | Fri 8:30AM | Wilderness | Doctor  | 228 | Fri         |
| Nelson        | Cynthia    | H   | Fri 12     | Wilderness | Doctor  | 228 | Sat         |
| Nolan         | Tom        | 206 | Sat 1PM    | Winn       | Bobbie  | K   | Fri 12      |
| Oechel        | Walt       | G   | Fri        | Woolf      | Larry   | K   | Sat 8AM     |
| Okino O'Neill | Merle      | G   | Fri        | Woolf      | Larry   | K   | Sat 9:30AM  |
| Opliger       | Robert     | 227 | Fri 3PM    | Woolf      | Larry   | K   | Sat 11AM    |
| Opliger       | Robert     | A   | Sat 11AM   | Wytrykus   | Mike    | J   | Fri 3PM     |
| Parker        | Scott      | 209 | Sat        | Zanotelli  | Mary    | 206 | Sat 8AM     |
| Peterson      | Brooke     | 252 | Fri 3PM    |            |         |     |             |
| Phillips      | Buddy      | 227 | Sat        |            |         |     |             |
| Plagge        | Anita      | 202 | Fri 3PM    |            |         |     |             |
| Plagge        | Anita      | A   | Sat 8AM    |            |         |     |             |
| Range         | Shannon    | J   | Sat 8AM    |            |         |     |             |
| Reich         | Loretta    | 227 | Fri 8:30AM |            |         |     |             |
| Reinbold      | Maggie     | C   | Fri 3PM    |            |         |     |             |
| Rinkenberger  | Kathy      | B   | Fri 3PM    |            |         |     |             |
| Schaper       | Joanne     | 208 | Sat        |            |         |     |             |
| Schneidewind  | Holly      | 202 | Fri        |            |         |     |             |
| Schneidewind  | Holly      | A   | Sat        |            |         |     |             |
| Scott         | Donald     | 207 | Sat 11AM   |            |         |     |             |
| Seidel        | David      | 228 | Fri        |            |         |     |             |
| Sherman       | Sharon     | A   | Fri 12     |            |         |     |             |
| Silverman     | Sandy      | 209 | Fri 12     |            |         |     |             |
| Simmons       | Tami       | E   | Fri 8:30AM |            |         |     |             |
| Stubbs        | Nancy      | K   | Fri 8:30AM |            |         |     |             |
| Taves         | Don        | D   | Fri        |            |         |     |             |
| Taves         | Don        | D   | Fri 12     |            |         |     |             |

**Science: Connecting Literacy, Achievement and Standards SDSEA 18th Annual Conference  
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| Last Name     | First Name | Day | Last Name | Day    | Time          | Room      |
|---------------|------------|-----|-----------|--------|---------------|-----------|
| Abel          | Chuck      | 252 | Fri       | 1:30PM | Elder         | Deen      |
| Abel          | Chuck      | 252 | Sat       | 9:30AM | Elder         | Deen      |
| Adler         | Danielle   | 208 | Fri       | 8:30AM | Elder         | Deen      |
| Anderson      | Cathey     | B   | Sat       | 1PM    | Elder         | Deen      |
| Anderson      | Nancy      | 209 | Sat       | 8AM    | Elder         | Deen      |
| Ashlar-Vellum |            | F   | Sat       |        | Eskeland      | Dr. Lucy  |
| Ashlar-Vellum |            | F   | Sat       | 1PM    | Evans         | 202       |
| Atkinson      | Marj       | 208 | Sat       | 1PM    | Ewan          | Starla    |
| Baird, PhD.   | Carol J.   | 252 | Fri       | 12     | Ewan          | Starla    |
| Bartram       | Steve      | B   | Sat       | 8AM    | Fairchild     | Kevin     |
| Beamish       | Ray        | F   | Fri       |        | Fedors        | John W.   |
| Bereki        | Debra      | G   | Fri       | 3PM    | Fedors        | John W.   |
| Berger        | Wolfgang   | G   | Fri       | 8:30AM | Ferguson      | Cris      |
| Berry         | Carol      | E   | Sat       | 9:30AM | Ferguson      | Cris      |
| Berry         | Ken        | 202 | Fri       | 12     | Fixman        | Jennifer  |
| Berry         | Ken        | F   | Sat       | 9:30AM | Fixman        | Jennifer  |
| Bohn          | John       | E   | Fri       | 12     | Fox           | Bill      |
| Bornhorst     | Carol      | 250 | Fri       | 10AM   | Glenn         | 208       |
| Bowes         | Judy       | 207 | Fri       | 3PM    | Gloeckler     | Susan     |
| Brice         | Debra      | B   | Fri       | 1:30PM | Hammond       | Beth      |
| Brun          | Kristina   | C   | Sat       | 11AM   | Hansen        | Viggo P   |
| Cerroni       | Deana      | 206 | Sat       | 11AM   | Harkewicz     | Laura     |
| Chapman       | Amelia     | D   | Sat       | 8AM    | Harrison M.D. | Dr. Nancy |
| Cowley        | Art        | 252 | Sat       | 11AM   | Harrison M.D. | Dr. Nancy |
| Crockett      | Lynn       | D   | Sat       | 9:30AM | Heitz         | 8:30AM    |
| Cuffari       | Susan      | 252 | Fri       | 10AM   | Hernandez     | Diane     |
| Currigan      | Casey      | H   | Fri       | 3PM    | Hernandez     | Diane     |
| Curry         | Bob        | J   | Sat       | 1PM    | Humphrey      | Laurie    |
| Dasher        | Steve      | C   | Sat       | 8AM    | Jones         | Lynda J.  |
| de Strulle    | Arlene     | G   | Fri       | 12     | Jones         | Lynda J.  |
| Deichler      | Martha     | A   | Fri       | 3PM    | Jones         | Lynda J.  |
| Deichler      | Martha     | 202 | Sat       | 8AM    | Kinzel        | Michelle  |
| Dietz         | Annette    | 252 | Fri       | 8:30AM | Kirkland      | Melanie   |
| Downing       | Dr. Chuck  | 250 | Sat       | 9:30AM | Klentschy     | Michael   |
| Downing       | Dr. Chuck  | 250 | Sat       | 11AM   | Klentschy     | Michael   |
| DuVall        | Janice     | I   | Fri       | 12     | Kolodziej     | Mike      |
| DuVall        | Janice     | D   | Sat       | 11AM   | Kumar         | Anjali    |
| Eaton         | Holly      | D   | Fri       | 8:30AM | La Fontaine   | Phil      |
| Elder         | Deen       | MTV | Fri       | 8:30AM | Lee           | Rick      |
| Elder         | Deen       | MTV | Fri       | 10AM   | Lightholder   | George    |
| Elder         | Deen       | MTV | Fri       | 1:30PM | Lightholder   | George    |

**Meeting Your Needs With The MTV****G****K-12****MTV**

Visit the San Diego County Office of Education's Mobile Technology Vehicle to see what programs and resources they can provide at your school site. Explore internet resources for science teachers, with an expert to assist you. Presented in the Mobile Technology Vehicle (MTV) in Plaza Hall.

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*

## Saturday, 1:30 pm - 2:30 pm

**Splashtastic****E****K-6****Copper Room**

See this magic show with a mission. Staged by Emmy Award winning magician Kevin Barnes (aka Dr. Wilderness), you'll learn about properties of water, water molecules, and the water cycle, as well as environmental and water conservation concerns. Learn about this high energy assembly program sponsored by the San Diego County Water Authority.

*Doctor Wilderness, San Diego County Water Authority*

**Raindrops To The Sea: Water Quality In San Diego**      **E**      **K-6**      **202**

Sampling of the free K-6 presentations and materials available from the County of San Diego, Department of Environmental Health, Water Quality Program. Includes applicability to state standards.

*Margarita Mogollon, Environmental Health Specialist, County of San Diego Dept. of Environmental Health*

**Earth Science From Space**      **ES**      **6-12**      **206**

Only NASA/JPL can bring you such a unique view of earth's ocean, land, and atmosphere systems. Free CDs, posters, handouts, and website listings are included.

*Tom Nolan, Operations Engineer, NASA/JPL*

*Claire Averill*

**The Natural History Of The Hawaiian Islands**      **B**      **5-11**      **208**

From its volcanic beginning, through isolation, evolution, human impact and cultural development, you will see a slide presentation on the natural history of the endangered species capitol of the world.

*Marj Atkinson, Teacher, Lincoln Academy*

**Coming In The Backdoor With Backwards Design**      **G**      **K-3**      **227**

A proven planning method that builds quality lessons for your students. It promotes confidence and competence.

*Cris Ferguson, Teacher, Casillas Elementary School*

*Holly Schneidewind*

**Can You "Dig" It?**      **G**      **3-6**      **Plaza B**

Harvest ideas on how your students can Discover and Investigate in the Garden.

*Cathey Anderson, Teacher, Valley Center - Pauma Unified School District*

**CAD Tools In The Science/Math Curriculum**      **G**      **6-8**      **Plaza F**

Science has always been represented in terms of math equations. Students who learn skills in computer aided design can better visualize the relevance of mathematical representations of science and physics in real world terms.

*Ashlar-Vellum*

*John Knepp, Electramotive Computers*

**The Science And Math Of Cartography In Airliner Instrument Navigation**

**ES**      **7-12**      **Plaza J**

Learn fascinating cross-curricular science and math of cartography in airliner instrument navigation. Each attendee gets complete U.S. air charts for lamination and classroom display.

*Bob Curry, Teacher*

*Shea Musgrave*

**Virtual Dissection: The Best of the Best****B****9-12****Plaza G**

Take a guided tour of Digital Frog 2, the best virtual dissection software. Borrow it FREE for your class.  
Receive an itemized list of fulfilled standards.

*Dr. Nancy Harrison M.D., Physician*

*Aaron McDonald, Computer Consultant*

**Planet Zone****ES****K-6****Plaza I**

Explore the solar system in your classroom with hands-on make-and-take projects. From the fiery furnace of the sun to the icy outermost planets.

*Jon Welte, Representative, Science Enrichment Services/Science Adventures*

**Rockets!****G****3-6****Plaza J**

Build and launch alka-seltzer powered paper rockets. Newton's third law, the scientific method, and other rocket types will be discussed.

*Bill Fox, Education Specialist, San Diego Aerospace Museum*

**It's A Colorful Life****P****5-12****Plaza K**

Use unique color materials to explore color misconceptions, additive and subtractive color mixing, primary colors, complementary colors, and applications of color mixing to everyday life.

*Larry Woolf, Physicist, General Atomics*

## Saturday 11:00 am - 12:30 pm

**Integrating Digital Video Into The Science Classroom****G****K-12****MTV**

Hands-on presentation of Digital Video and the "how to's" of basic film making for the science classroom.  
Presented in the Mobile Technology Vehicle (MTV).

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*

## Saturday 11:00 am - 1:00 pm

**From Montana To Mars: Science Through Literature****G****3-12****207**

Participants will gain ideas for teaching exploration science by comparing Lewis & Clark's expedition with NASA's Mars Exploration. Hands-on, and handouts.

*Donald Scott, NASA Educator, NASA Ed. Services, NASA ARC*

**Gardening And Nutrition In The Classroom****G****K-6****209**

An overview of the University of California research based curriculum including "Nutrition To Grow On" (4-6) and "Twigs" (K-6) will be presented. Workshop includes experiential activities.

*Scott Parker, Program Representative, UCCE San Diego County - Family Nutrition Program*

*Latrice Jackson*



**Getting to Know California's Biggest Trees****E****K-12****252**

Information about California's Biggest Trees Program and the economic, cultural and ecological value of trees. Includes overviews of 5 courses for teachers via mail, lesson plans, and slide show.

*Art Cowley, Program Coordinator, California's Biggest Trees, Society of American Foresters*

**Schoolyard Wildlife Habitat Program****E****K-6****Plaza A**

This program reconnects children with nature providing them a means to observe and study wildlife at their school, and providing wildlife needed habitat.

*Robert Opliger, Senior Education Coordinator, National Wildlife Federation*

**Cool Caterpillars****B****K-2****Plaza B**

Hands-on activities about garden creatures. Introduces body parts and offers fine motor skill activities for early primary grades. Hand outs of lesson plans to all participants.

*Kathy Motschall, Science Specialist, Solana Santa Fe Elementary, Solana Beach Schools*

**Fun And Simple Labs For Eighth Grade Standards****P****6-8,****Plaza C**

My favorites are: Salt Water Density, Solar Bag, Lemon Density, Hollow Pennies, Static Snakes, Rolly Bugs, Seltzer Rockets, and Volume Of Your Hand.

*Kristina Brun, Teacher, Lincoln Middle School, Oceanside*

**Outdoor Education - Authentic And Meaningful Enhancement For Your Science Curriculum****G, E****K-6****Plaza D**

The Green Machine and Splash Mobile Science Lab will demonstrate lessons for grades K-6. See how earth, physical, environmental, and life science can be experienced! Packets provided!

*Janice DuVall, Outreach Program Specialist, San Diego County Office of Education*

*Doug Connor*

**CREEC: Connecting Educators With Environmental Education Resources****E****K-12****Plaza E**

CREEC can connect you with high quality, regionally relevant environmental education resources to enhance the environmental literacy of California students.

*Adrienne Marriott, CREEC Coordinator, San Diego County Office of Ed*

**CAD Tools In The Science/Math Curriculum****G****9-12****Plaza F**

Science has always been represented in terms of math equations. Students who learn skills in computer aided design can better visualize the relevance of mathematical representations of science and physics in real world terms.

*Ashlar-Vellum*

*John Knepp, Electramotive Computers*

**Integrating Digital Video Into The Science Classroom**      **G**      **K-12**      **MTV**

Hands-on presentation of Digital Video and the "how to's" of basic film making for the science classroom. Presented in the Mobile Technology Vehicle (MTV).

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*

**Saturday 11:00 am - 12:00 pm****Crossing Borders**      **G**      **K-5**      **Copper Room**

Science is the perfect content area to develop metacognitive abilities in students. The Valle Imperial Project in Science has focused on the strong relationship between science content understanding and the advancement of expository writing. This session will focus on that relationship and provide participants with research-based classroom strategies for teachers.

*Michael Klentschy, Superintendent, El Centro Unified School District*

**Science Notebooks, Standards, Music And More!**      **B**      **K-2**      **202**

Participants will learn to maximize the use of science notebooks in their classrooms. They will learn to incorporate reading and comprehension strategies into their science programs using fun, standards-based songs.

*Jennifer Fixman, Teacher, Oneonta Elementary School, South Bay USD*

**Quick Tricks In Integrated Science**      **G**      **9-12**      **206**

Hands-on, minds-on activities for High School earth, space and physical sciences (Integrated Science). Come have fun with quick easy to do science activities.

*Deana Cerroni, National Science Consultant, Prentice Hall*

**Inventors' Showcase**      **G**      **K-12**      **208**

An update of the 17th Annual Inventors' Showcase, Grades K-12 using videos, and slides. Ideas for the classroom, all levels, all abilities, curriculum connections.

*Joanne Schaper, Coordinator, Inventors Showcase*

*Martin Teachworth, Biology Teacher*

**Observations About National Board Certification**      **G**      **K-12**      **227**

What is it? Why should I do it? What would it mean for me? Where do I go from here?

*Laurie Humphrey, PAR/NBTS Coordinator, Chula Vista Elementary School District*

*Peggy Ratner*

**PreP (peer review process) Your Classes**      **G**      **6-16**      **250**

Peer review of assignments is a powerful classroom tool. Participate in several examples and learn how to modify existing assignments to allow for this process.

*Dr. Chuck Downing, Professor, Teacher Education, Point Loma Nazarene College*

**Legoland Educational Field Trips****P****K-6****Plaza D**

Give your mind a hand - explore our hands-on field trips. Power up with LEGO solar panels to collect, store and transfer energy. Beginners build simple machines that use gears.

*Lynn Crockett, Education Programs Manager, Legoland California*

**Could You Live Without Rocks?****ES****3-12****Plaza E**

Everyday every person eats, sleeps in, works in, drives on, and walks on minerals and rocks - using more than 7 tons per person each year. This workshop furnishes mineral samples and demonstrates classroom lesson plans.

*Carol Berry, Managing Director, California Mineral Education Foundation*

**Mars Rover Project****ES, P****3-8****Plaza F**

The Mars Exploration Rovers will launch in June 2003 and land in January 2004. Join this project to bring the excitement of a Mars mission to your classroom.

*Ken Berry, Professor of Secondary Education, Cal State Northridge*

**Cool Activities With Gene****B****7-12****Plaza H**

A fun and creative approach to teaching genetics and biotechnology. The workshop will include games, solving forensic cases, pedigree study, and mutation and cloning.

*Dr. Lucy Eskeland*

*Author, Science 2 Discover Inc.*

*Dr. Celeste Bailey*

**Paper Airplanes Like You've Never Seen!****P****K-5****Plaza I**

Easily built gliders up to 3 feet long in a few minutes with exceptional range and stability. Dr. Flubber will provide handouts and all materials.

*George Lightholder, Kindergarten teacher, Science Specialist, Bella Vista School, Montebello Unified S.D.*

*Erina Lightholder*

**How Many People Can Earth Support?****E****9-12****Plaza J**

Consider this and other challenging questions about human - environmental interactions in this hands-on, minds-on workshop. Participate in imaginative, memorable activities designed to meet California content standards for ecology. Free materials!

*Beth Hammond, Zoo Educator, San Diego Zoo*

**Staying Alive: The Physics, Mathematics, And Engineering Of Safe Driving****P****9-12****Plaza K**

Investigations of braking distances, braking times, yellow traffic lights, reaction times, drunk driving, passing on 2-lane roads, safe spacing on highways, the Doppler effect, and gas mileage policy.

*Larry Woolf, Physicist, General Atomics*

### Achievement Literacy And Standards Through Holy Mol-ee Chemistry

P

4-16

207

Increase achievement, solidify literacy and support standards through these whole-brain learning techniques: song, dance, dramatization, visuals, tactiles, logic and recitation. Good for any age.

*Lynda J. Jones, Presenter/Consultant, Holy Mol-ee Institute*

### What's Popping - Toy Poppers And Physics

P

7-12

208

Learn how to use toy "poppers" to do three physics labs. The labs include kinematics, momentum and conservation of energy topics. Math and calculators are required to do the labs.

*Martin Teachworth, Science Teacher, La Jolla High School, SDCS*

### Is Being A NOAA Teacher At Sea For You?

B

K-12

209

Dana spent 23 days at sea on NOAA's research vessel Ka'imimoana in March of 2002. Hear about her scientific adventures and decide if this may be for you too!

*Dana Tomlinson, Teacher, Emory Elementary School*

### Bring The Forest To Your Classroom

E

3-6

227

Bring the forest experience into your classroom. Study its value in the wilderness, as well as its value to society and the economy.

*Buddy Phillips, Education Coordinator, California Forest Products Commission*

### Kinesthetics is Kool: So Make Your Class A "Moving Experience" G 6-16 250

Movement is a powerful learning stimulus for many students. Come and be "moved", (1) by the demonstrations and (2) to "move" your classes too.

*Dr. Chuck Downing, Professor, Teacher Education, Point Loma Nazarene College*

### Raise Your School's API With Effective K-5 Science G K-5 252



See examples from around the nation of the benefits of hands-on science, done well. See how it effects test scores in reading, writing, and math - all parts of your API score. Learn the results of research on the 9 most effective instructional strategies and how they go hand-in-glove with hands-on science.

*Chuck Abel, Science Coordinator, Cajon Valley Union School District*

### Inquiry & Should I Or Shouldn't I? G K-3 Plaza A

G

K-3

Plaza A

Experience a hands-on lesson with a focus on the value of using inquiry in your science planning and program.

*Holly Schneidewind, Teacher, Casillas Elementary School*

*Cris Ferguson*

**Meeting Your Needs With The MTV****G****K-12****MTV**

Visit the San Diego County Office of Education's Mobile Technology Vehicle to see what programs and resources they can provide at your school site. Explore internet resources for science teachers, with an expert to assist you. Presented in the Mobile Technology Vehicle (MTV) in Plaza Hall.

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*

**Saturday 8:00 am - 10:00 am****The California Science Safety Handbook****G****K-14****Copper Room**

Learn the "dos" and "don'ts" of practical science safety for your classroom. Help students have an interesting, fun, and safe time in the lab. Find out which Ed. Code, CalOSHA, Health and Safety Code, and Fire regulations apply to you and your district.

*Phil La Fontaine, Science Consultant, California Department of Education*

*Deborah Tucker*

**Animal Ambassadors - Animals As A Bridge To Science****E****3-6****Plaza C**

A hands-on, inquiry-based, science curriculum that emphasizes critical thinking and life skills for upper elementary students utilizing animal science and their environment as the content. Teens are trained to deliver the curriculum and serve as cross-age mentors for the elementary students.

*Steve Dasher, 4-H Youth Development Advisor, University of CA Cooperative Extension*

*Martin Smith Ph.D., School of Veterinary Medicine University of California*

**Saturday 9:30 am - 10:30 am****Teaching Children About The Human Body Through Fun Songs****B****K-5****202**

Children learn advanced concepts about the human body through music. Participants leave with dozens of ideas for incorporating reading, writing and hands-on activities into a human body unit.

*Jennifer Fixman, Teacher, Oneonta Elementary School, South Bay USD*

**Practical Strategies To Facilitate English Language Learners'****Understanding Of Science****P****3-8****206**

Teachers will be offered a model on how to help ELD students acquire reading, writing, and study skills to better understand science concepts. The focus will be on physical science, middle school level.

*Gilbert Mendez, Assistant Professor, SDSU Imperial Valley Campus*

*Yolanda Guerrero, Resource Teacher*

**LABSTRACT: Narrative Laboratory Writing**

G

4-12

Plaza B



Writing lab reports in a narrative style forces students to focus on comprehension and analysis, as well as sentence structure and content! Learn a strategy that addresses science and literacy skills!

*Steve Bartram, Teacher, Rancho Buena Vista High School*

**Building Kites And Cultural Connections**

G

3-6

Plaza D



Learn how to build a simple kite out of a grocery bag and make connections to kite stories from around the world.

*Amelia Chapman, Education Coordinator, San Diego Aerospace Museum*

**Project Lead The Way**

P

6-12

Plaza E

A presentation on the engineering program at San Diego State and on the "Project Lead The Way" pre-engineering high school program will be given.

*Bruce Westermo, Assistant Dean, College of Engineering, SDSU*

*Dr. William Guentzler*

**Boosting Achievement Through "Super Teaching" Technology**

G

K-14

Plaza F



This futuristic multimedia technology, proven to boost achievement, is available to schools through government grants. Come see it. It will blow you away!

*Lynda J. Jones, Teacher/Consultant, ST Concepts*

**Flights Of Fantasy: Amazing Aircraft You Will Construct**

P

K-5

Plaza I

Make it, take it, fly it. Make a few fantastic air foils (airplanes) you've never seen! Even K kids can make my 3 foot long aircraft...so can you!

*George Lightholder, Kindergarten teacher, Science Specialist, Bella Vista School, Montebello Unified S.D.*

*Erina Lightholder*

**Examining Einstein's Space-time With Gravity Probe B:****A High School Lesson**

P, ES

9-12

Plaza J

A demonstration and guide to teaching students about space-time and the cutting-edge NASA mission Gravity Probe B. Classroom materials available (guides and posters).

*Shannon Range, Researcher, Gravity Probe B, Stanford University*

**The Line Of Resistance:****Exploring Electrical Properties Of Materials And Circuits**

P

9-12

Plaza K

Investigate the electrical properties of materials and circuits using a graphite pencil, a piezoelectric spark generator, creative dramas and simulations.

*Larry Woolf, Physicist, General Atomics*

**There's A School In Every Garden****G****K-6****202**

School gardens are fabulous hands-on outdoor classrooms where all subjects can be integrated. This workshop offers standards-based materials and contact to get you started!

*Martha Deichler, Teacher, Vista Square Elementary School*

*Elizabeth Aguirre Nixon*

**The Science, Math, Reading, And Art Of Animal Tracking****E****3-6****206**

Use observation, sketching, measuring and journaling to introduce your students to animal tracking: the identification and interpretation of tracks, scat, browse, and other animal sign.

*Mary Zanotelli, Environmental Educator, San Diego Natural History Museum*

**Creating Corridors: Students Are Saving Their Classroom****E****3-12****207**

Creating Corridors is a project started with education about conservation, specifically in the tropics, in mind. The main points will focus on the role of corridors, food webs in relation to conservation, and succession and regeneration.

*Anjali Kumar*

*Jason Maas-Baldwin*

**New Teacher Focus Group****G****7-12****208**

Come and learn about a focus group for middle and high school teachers. This group meets once a quarter to share ideas, lessons, concerns and techniques to make teaching fun and manageable.

*Martin Teachworth, Science Teacher, La Jolla High School, SDCS*

**Bose Corporation Presents:****In Harmony With Education Program****G, P****5-8****209**

An in-school field trip experience for your school where students view a multi-image show, investigate sound using an oscilloscope and play folk instruments.

*Nancy Anderson, Program Manager, Bose Corporation - In Harmony With Education Program*

*Ilze Davenport*

**Teaching Science On A Tight Budget****ES****3-12****252**

Teachers will make a sample portfolio and be given many practical and easy to do Earth Science ideas they can use immediately in their classrooms.

*Myrna Martin, President, Ring Of Fire*

**Teaching Science With Live Animals****B****K-6****Plaza A**

Create an excitement for science among your students by using animals to enhance your science lessons. Hands-on demonstrations and take home materials available.

*Anita Plagge, Director, Animania - Explorations In Animal Science*

**Science Fair For Everyone****G****6-8****Plaza H**

Having the entire 8th grade complete a science fair project may seem impossible, but it can be done. Timelines, suggestions, handouts and websites for you to take home.

*Casey Currigan, Teacher, Marston Middle School*

*Elizabeth Lilja Newlin*

**Angiology and Neurology Workshop -****Blood And Nerves - Unraveling****B****3-12****Plaza I**

Discover a step by step hands-on experience utilizing models to build the body from the inside out. "The mind does not forget what the hands have learned."™

*Starla Ewan, Teacher, Zahourek Systems Inc.*

**Elementary Science For The Classroom:****Physical, Life, Earth, Reasoning****G****K-6****Plaza J**

The "Living With Science" program has been designed to harness children's natural curiosity and focus it on the key areas of elementary science as identified in the National Science Standards.

*Mike Wytrykus, Educational Consultant, Klein Educational Systems*

*Stella Taylor*

**Growing Minds With The Junior Master Gardener Program****G****3-8****Plaza K**

With or without a garden, the Junior Master Gardener Program teaches horticultural and environmental concepts, nutrition, life skills and other academic skills while also encouraging service learning.

*Susan Gloeckler, CA Coordinator - Junior Master Gardener Program, University of California*

**Meeting Your Needs With The MTV****G****K-12****MTV**

Visit the San Diego County Office of Education's Mobile Technology Vehicle to see what programs and resources they can provide at your school site. Explore internet resources for science teachers, with an expert to assist you. Presented in the Mobile Technology Vehicle (MTV) in Plaza Hall.

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*



**There's A School In Every Garden**

G

K-6

Plaza A

School gardens are fabulous hands-on outdoor classrooms where all subjects can be integrated. This workshop offers standards-based materials and contact to get you started!

*Martha Deichler, Teacher, Vista Square Elementary School*

*Elizabeth Aguirre Nixon*

**Cows, Cotton, Wool And More...Hands On Agricultural Science**

G

K-6

Plaza B

Hands-on and activity based lessons that will integrate agriculture into your science, history, math, and language arts curricula.

*Kathy Rinkenberger, Agricultural Literacy Consultant, Ag Experience*

**Outstanding Terrestrial Arthropods:****Diversity Of Insects, Arachnids, and Myriapods**

B

K-12

Plaza C

This workshop offers participants the opportunity to compare and contrast the differing forms and functions of global terrestrial arthropods. Their diversity and ecological importance will also be discussed.

*Maggie Reinbold, PISCES Project/SDSU*

**Motion Labs That Work - Bowling Balls Tamed and Trained**

P

8-12

Plaza D

Learn how to use bowling balls to introduce and teach concepts of motion, graphing, and graphical analysis. The labs are fun, easy to see and understand while allowing a sequential development of concepts and calculations.

*Mike Kolodziej, Teacher, La Jolla High School*

**CREEC: Connecting Educators With Environmental Education Resources**

E

K-12

Plaza E



CREEC can connect you with high quality, regionally relevant environmental education resources to enhance the environmental literacy of California students.

*Adrienne Marriott, CREEC Coordinator, San Diego County Office of Ed*

**Real Life Science: Integrating Field Biology Tools And Techniques Into Your Classroom**

B

7-12

Plaza F

Learn and use the tools used by scientists to study wildlife. Follow gray whales through their feeding grounds, track sea turtles across ocean basins. Games, lesson plans and ideas for getting your kids excited about wildlife!

*Michelle Kinzel, Consultant, Science Enrichment Programs*

**Slip Sliding Away, The San Andreas Fault**

ES

6-12

Plaza G



The San Andreas Fault is one of the largest transform plate boundaries in the world. Come explore this large fault with animations and hands-on activities.

*Debra Bereki, Mentor, University of California Santa Barbara*

**Teaching Science With Live Animals****B****K-6****202**

Create an excitement for science among your students by using animals to enhance your science lessons. Hands-on demonstrations and take home materials available.

*Anita Plagge, Director, Animania - Explorations In Animal Science*

**The Art Of Science And Nature****B****K-6****207**

Creative art with science and literature connections. Art activities inspired by your favorite books! Use puppets to introduce science concepts. Take home a "recycled" puppet. Great giveaways! Handouts! New Songs!

*Judy Bowes, Educator, San Diego Zoo*

*Laurie Furry*

**Ward's-Be-Safe: Safety In The Science Laboratory Lab Activity****B,P****9-12****208**

A comprehensive and fun lab safety lesson for biology and chemistry laboratories. Students learn the proper use of common equipment, how to safely use and store chemicals, how to perform proper cleanups, and disposal of hazardous chemicals.

*Michael Logan, Western Regional Sales Manager, Ward's Natural Science Inc.*

**Raindrops To The Sea: Water Quality In San Diego****E****K-6****209**

Sampling of the free K-6 presentations and materials available from the County of San Diego, Department of Environmental Health, Water Quality Program. Includes applicability to state standards.

*Margarita Mogollon, Environmental Health Specialist, County of San Diego Dept. of Environmental Health*

**Schoolyard Wildlife Habitat Program****E****K-6****227**

This program reconnects children with nature providing them a means to observe and study wildlife at their school, and providing wildlife needed habitat.

*Robert Opliger, Senior Education Coordinator, National Wildlife Federation*

**Around The World With Wild Wes****E****K-6****250**

A fun-filled sing-along assembly program, featuring live animals from the San Diego Zoo, that teaches students about wildlife, geography and conservation.

*Wes Mason, Zoo Educator, San Diego Zoo*

**Green Schools - San Diego Energy Efficiency Education****G****7-12****252**

The Green Schools program is a long term, comprehensive and multidisciplinary program. The presentation will focus on the energy savings and inquiry-based learning opportunities.

*Brooke Peterson, Program Manager, San Diego Regional Energy Office*

*George Barganier*

**Science In The Clouds: It's Super-Cool Water!**

ES

3-12

Plaza B

Classroom activities to demonstrate weather processes. Super-cool water in a cup - even cooler than Brittany Spears.

*Debra Brice, Teacher, American Meteorological Society*

*Patty Anderson*

**Inquiry Methods In Physics Classes**

P

9-12

Plaza C

Research shows that chalk-and-talk lectures and cookbook style labs are ineffective methods of teaching physics. We'll provide an overview of activity-based, inquiry-oriented techniques that you can use in your classroom.

*Kevin Fairchild, Teacher, La Costa Canyon High School*

*Joe Murray*

**Applying Science, Math, Language****And Technology Using The Environment**

B, E

K-6

Plaza G



Teachers in this hands-on environmental program, in partnership with the San Diego Natural History Museum and San Diego County Schools, will share their student's accomplishments.

*Merle Okino O'Neill, Program Director, Communities Alive In Nature*

**Myology Workshop - Building A Body**

B

3-12

Plaza I

Discover a step by step hands-on experience utilizing models to build the body from the inside out. "The mind does not forget what the hands have learned."™

*Starla Ewan Teacher, Zahourek Systems Inc.*

## Friday, 1:30 pm - 3:00 pm

**Integrating Digital Video Into The Science Classroom**

G

K-12

MTV

Hands-on presentation of Digital Video and the "how to's" of basic film making for the science classroom. Presented in the Mobile Technology Vehicle (MTV).

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*

## Friday, 3:00 pm - 4:00 pm

**The New California Science Framework**

G

K-12

Copper Room

A new Science Framework is upon us. Learn about the features of the State Board of Education approved first post-standards science document from the California Department of Education.

*Deborah Tucker, Science Consultant, California Department of Education*

*Phil La Fontaine*

**Reaching For Mars -****Will California's Science Plans Measure Up?****G, ES****K-12****Copper Room**

Manager of the Jet Propulsion Laboratory's Pre-College Program, recipient of NASA's Exceptional Service Medal, the voice of "Mission Control," and the parent of a fourth grader, David Seidel will explore the science standards and framework, the fifth grade assessment, and NASA's view of the opportunity that they present. Come enjoy an only semi-serious perspective on science education in California.

*David Seidel, Manager of Pre-College Programs, NASA/Jet Propulsion Laboratory*

**What Good Is A Good Question?****G****4-12****202**

Students are always asking questions. This is a good thing and can become even better as students learn how to ask productive questions. Learn how to turn student questions into productive scientific investigations, allowing them to ask more questions!

*Aly Evans, Reuben H. Fleet Science Center*

*Anson Lee*

**Scientific Attitudes More Important Than Content****G****3-12****208**

Science and math teaching must include issues essential for planet earth's survival in conjunction with content. A plea for attitude adjustment.

*Viggo P Hansen, Professor, California State University, Northridge*

**New Modules From SEPUP****B, P****9-12****227**

Out with the old, in with the new! New modules that is. Over 75,000 SEPUP modules have been sold, making it one of the most successful NSF-funded projects to date. But times change, and SEPUP has changed. Our new modules feature the original SEPUP issue-oriented approach, with fresh strategies to support inquiry, literacy, and assessment. Join us for a hands on overview.

*Donna Markey, Lab-Aids Inc.*

**Coming In The Backdoor With Backwards Design****G****K-3****250**

A proven planning method that builds quality lessons for your students. It promotes confidence and competence.

*Cris Ferguson, Teacher, Casillas Elementary School*

*Holly Schneidewind*

**Raise Your School's API With Effective K-5 Science****G****K-5****252**

See examples from around the nation of the benefits of hands-on science, done well. See how it effects test scores in reading, writing, and math - all parts of your API score. Learn the results of research on the 9 most effective instructional strategies and how they go hand-in-glove with hands-on science.

*Chuck Abel, Science Coordinator, Cajon Valley Union School District*

**Sort It All Out - Integrating Science, Mathematics, and Language G K-2 209**

Sorting and classification are key components common to K-2 math, science and language development. Explore developmentally appropriate hands-on activities and related developmental sequence.

*Sandy Silverman, Coordinator, San Diego County Office of Education*

**Windows On The Wild - Biodiversity Basics B 6-12 Plaza A**

You will be doing the activities from WWF's Windows On The Wild curriculum that will bring biodiversity into every unit - from genetics to nutrient recycling. FREE GIVEAWAYS!

*Sheri Sherman, Education Specialist, San Diego Zoo*

*Kathy Myers, Education Specialist*

**Constructing Ideas in Physical Science (CIPS):****An Exciting New Program P 7-8 Plaza E**

Local teachers discuss and demonstrate CIPS, an eighth grade physical science course. Based on national standards, CIPS uses guided inquiry to develop robust understanding of important science concepts.

*John Bohn, Teacher, Tierra Del Sol Middle School, Lakeside*

**Bring Your High School Science Class Into The 21st Century****With PASCO Technology G 9-16 Plaza H**

Enhance your existing Physics, Biology and Chemistry lab activities with PASCO probeware and software.

Engage your student in the practice of using PASCO's hand-held data loggers, sensors and graphing software. Electronic workbooks provide self-contained activities that guide students through the scientific process. Now your students can learn science by doing science!

*Cynthia Nielson, Educational Technology Rep., PASCO Scientific*

**Project Wild Science and Civics: Sustaining Wildlife E 9-12 Plaza K**

Project Wild's new high school curriculum appropriate for service learning and performance-based assessment.

Activities teach field research skills, ecological principals, and civic participation.

*Bobbie Winn, Project Wild Coordinator, Department of Fish and Game/Proj. Wild Prog.*

**Bio-Rad's DNA Fingerprinting Kit B 9-12 206**

Teach students how biotechnological techniques are used to generate DNA fingerprints. Use different enzymes to perform restriction digests of six different DNA samples obtained from a crime scene and use DNA electrophoresis to make a positive ID! Apply the processes and the principles of real-world biotechn

*Rachel von Roeschlaub, Bio-Rad Laboratories*

**Serpent Skin Innovations****B****3-12****Plaza B**

Participants will do activities demonstrating the semi permeability of "Serpent Skin". "Serpent Skin", a crinkled dialysis tubing which is already open, makes it much easier to use and less expensive. You'll use soluble starch solutions, a dilute iodine solution, "Karo" syrup, soil moist, enzymes, glucose test strips, and pH indicator. Each participant will receive a sample of "Serpent Skin" and lab explorations for use with students.

*John W. Fedors, Educator*

**Ins And Outs Of Photosynthesis****B****4-8****Plaza C**

Learn to teach the photosynthesis model so students can actually see the raw materials and products in a hands-on project. Respiration will be covered also. Handouts and materials to do the project.

*Doug Verner, Teacher, Rincon Middle School, Escondido*

*Fred Woods*

**Birch Aquarium At Scripps - A Teacher's Resource****G****K-16****Plaza G**

The Birch Aquarium's Education Director invites teachers to assist in identifying ways to connect our resources to your school. First ten participants receive discounted programming. Handouts.

*Arlene de Strulle, Director of Education, Birch Aquarium At Scripps*

*Danielle Adler*

**Outdoor Education - Authentic Meaningful Enhancement For Your Science Curriculum****G, E****K-6****Plaza I**

The Green Machine and Splash Mobile Science Lab will demonstrate lessons for grades K-6. See how earth, physical, environmental, and life science can be experienced! Packets provided!

*Janice DuVall, Outreach Program Specialist, San Diego County Office of Education*

*Doug Connor*

**Something To Reflect Upon - Mirror Labs****P****6-12****Plaza J**

See several simple labs using mirrors, pins, and cardboard to teach students about plane, concave, and convex mirrors, real and virtual images. Even younger students can do the labs and learn the concepts.

*Martin Teachworth, Science Teacher, La Jolla High School, SDCS*

**The Electromagnetic Spectrum: Nature's Information Carrier****P****6-12****207**

Electric and magnetic field components of the wave theory of the electromagnetic spectrum and the origin of various spectral ranges will be demonstrated. Interactive, classroom relevant activities will be performed by all. An activity notebook, video, CD, and posters will be provided.

*Rick Lee, Scientist, General Atomics*

*Alex Nagy*

**The State Of Science In Our State - An Update From The CDE G K-12 Copper Room**

Science Standards, a new Science Framework, State Assessments, and policy issues will be discussed. Get the most current information on issues facing California science educators.

*Deborah Tucker, Science Consultant, California Department of Education*  
*Phil La Fontaine*

**Science And The California Assessment System G K-12 250**

Learn about California's standardized science tests and their place in standards-based education.

*Diane Hernandez, Science Consultant, California Department Of Education - Standards & Assessment*

**Mars Rover Project ES, P 3-8 202**

The Mars Exploration Rovers will launch in June 2003 and land in January 2004. Join this project to bring the excitement of a Mars mission to your classroom.

*Ken Berry, Professor of Secondary Education, Cal State Northridge*

**Coral Reef Adventure IMAX:****Introduction To The Educator's Guide (III) E K-6 208**

This workshop introduces K-6 teachers to the hands-on activities designed for the new IMAX film "Coral Reef Adventure". Session 3 focuses on physical processes such as sedimentation and water pressure.

*Scott Mau, Marine Science Educator, Birch Aquarium at Scripps*  
*Brad Krey*

**See Your Middle School Students Soar With SEPUP B, G 6-9 227**

See students. See students suffer in science class. See SEPUP scenarios use societal issues to stimulate students' curiosity and interest. See standards-based support for inquiry, literacy and assessment. See states select and adopt SEPUP. See students smile as they successfully soar with SEPUP.

*Donna Markey, Lab-Aids Inc.*

**Discover California's Ecology, Geology And Biodiversity With Cal Alive!****E, ES 3-10 252**

Excite your students about science by studying local habitats. Learn to link Cal Alive's exciting new technology standards and field investigations.

*Carol J. Baird, PhD., Executive Director, California Institute for Biodiversity*  
*Lorrae Fuentes*

**Quizdom: Questions Answers And Learning Games G 3-12 Plaza D**

Grab a remote and join our game. Winner gets the prize. Learn to create your own lessons, quizzes and games, or use programs already available.

*Don Taves, Regional Sales Mangager, Sargent-Welch*

**Lab Furniture: Design Your Lab****G****6-12****Plaza D**

Join us for a discussion on laboratory design. Learn about NSTA recommendations for space and safety. Design kits for participants.

*Don Taves, Regional Sales Manager, Sargent-Welch*

**Data Collection Your Way With Vernier LabPro®****G****9-12****Plaza E**

In this demonstration you will learn how to use the award-winning Vernier LabPro® interface to collect data with computers, Texas Instruments graphing calculators, and Palm™ handhelds.

*Dan Holmquist, Vernier Software & Technology*

**Increase Learning With Review Games and Infrared Remotes****G****K-12****Plaza F**

Easily create an interactive and exciting classroom with learning games like Millionaire and Fast Track. Media rich lessons and tests...using a single computer!

*Ray Beamish, President, Qwizdom, Inc.*

**Using Real Time Environmental Data****B, E****K-6****Plaza G**

You and your students can access environmental information from the arctic to southern Baja. Learn how to receive and make use of the data with your students.

*Walt Oechel, Professor of Biology, SDSU*

**Meeting CA K-5 Standards With FOSS CA Edition****G****K-5****Plaza I**

FOSS now has a California edition. Come and learn how the new FOSS CA Edition meets all of the K-5 science standards.

*Dean Taylor, Sales Representative, Delta Education*

**Science Projects Parents Will Hate****P****5-12****Plaza J**

Projects to teach engineering and science that are fun for teachers and a terror for parents will be shared. Projects include a simple timing device, rubber band cars, toothpick tower and cantilevered tower.

*Martin Teachworth, Science Teacher, La Jolla High School, SDCS*

## Friday, 10:00 am - 11:30 am

**Integrating Digital Video Into The Science Classroom****G****K-12****MTV**

Hands-on presentation of Digital Video and the "how to's" of basic film making for the science classroom. Presented in the Mobile Technology Vehicle (MTV).

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*



**VIPS - How Inquiry And Science Notebooks Raise Achievement G K-5 Copper Room**

Learn about the nationally known Valle Imperial Project In Science. See the results of a carefully crafted four year study of student achievement when inquiry based science is implemented. K-5 inquiry based science and the science notebooks which accompany the investigations provide test score gains across the board.

*Michael Klentschy, Superintendent, El Centro Unified School District*

**Coral Reef Adventure IMAX:****Introduction To The Educator's Guide (II)****E****K-6****208**

This workshop introduces K-6 teachers to the hands-on activities designed for the new IMAX film "Coral Reef Adventure". Session 2 focuses on symbiosis and the complex reef ecosystem.

*Shelly Glenn, Marine Science Educator, Birch Aquarium at Scripps*

*Sarah Wilson*

**Standards - Friend or Foe?****G****6-8****250**

Standards are a reality. Learn some ways to use the standards to guide you and your students on a science adventure.

*Carol Bornhorst, Teacher, Bonita Vista Middle School*

**Missions Into Technology, Math And Science  
(K-6 Systemic Solution)****P****K-6****252**

You will be introduced to the learning center approach to teaching integrated science, math and technology. This system engages students in designing, building, and testing their solutions to hands-on problem solving activities.

*Susan Cuffari, Educational Consultant, PitscoLego Education*

**Hassle Free Environmental Microbiology -  
Exposing The Intimate Stranger****B****7-12****Plaza B**

Participants will receive user friendly laboratory explorations and interactive guides. You will do activities simulating an environmental testing of microorganisms requiring minimal to no capital equipment, using Petrifilm Plates. Use a strain of bakers yeast and receive a culture to take with you. You will test the immediate environment to expose the "intimate stranger," testing for E. Coli coliform bacteria, and see a demonstration of "Clean Hands."

*John W. Fedors, Educator*

**Gotcha!****G****6-8****Plaza C**

Hands on labs for middle school students: wave bottles, natural selection, motion and more. All labs are exciting for students and teachers! Handouts provided.

*Melanie Kirkland, Teacher, Castle Park Middle School*

*Donna Burner*

**Reading Up The Food Guide Pyramid****G****K-3****209**

Reading Up The Food Guide Pyramid is a nutrition and literacy program developed for grades K-3. It helps children become aware of food and nutrition by having children's books read to them. This is aligned to California Standards. Free curriculum limited to the first 25 in attendance.

*Stella Taylor, Nutrition Educator, UC Cooperative Extension/Family Nutrition Program*

*Scott Parker*

**Reading + Science = The Perfect Pathway To Literacy****G****K-12****227**

Science content reading strategies designed to help the most reluctant learner. Appropriate for any science content area. Packet will contain ready to use standards based activities.

*Loretta Rector, National Consultant, Prentice Hall*

**Bring Your Middle School Science Class Into The 21st Century With PASCO Technology****G****5-8****Plaza H**

Enhance your existing Physical, Life and Earth Science Lab activities with PASCO probeware and software.

Engage your students in the practice of science using PASCO's hand-held data loggers, sensors and graphing software. Electronic workbooks provide self-contained activities that guide students through the s

*Cynthia Nielson, Technical Sales Representative, Pasco Scientific*

**Using Mastery Teaching To Maximize Student Achievement****G****7-12****Plaza K**

The gap between what teachers teach and what students learn can be bridged when mastery teaching techniques are used to present a standards based aligned curriculum.

*Nancy Stubbs, Science Curriculum Specialist, Sweetwater Union HSD*

**Friday, 8:30 am - 11:30 am****Bio-Rad's pGLO Bacterial Transformation****B****9-12****206**

You will transform bacteria with Bio-Rad's pGLO plasmid that contains a bioluminescent jellyfish gene! The final result is bacteria which glow a brilliant green due to inclusion of jellyfish protein. Use this wet-lab exercise to achieve National Standards for Science Education.

*Rachel von Roeschlaub,*

*Bio-Rad Laboratories*

**CABAP Training For PoC Volunteers****G****K-12****Plaza A**

Training session for the California Building A Presence project. Point of Contact training meeting, by invitation only. Includes lunch.

*Judi Heitz, Biotechnology Program, Chula Vista High School*

*Nancy Taylor*

**Earth Literacy From The Natural History Of Sand**

ES

3-8

Plaza G



The story of sand grains from different parts of the world and from different geological environments is used to transmit knowledge.

*Wolfgang Berger, Professor, Scripps Institution Of Oceanography*

*Patty Anderson*

**Soaring With Paper Airplanes**

G

3-6

Plaza I

Get kids excited about the scientific method and experimentation. Learn how the four forces of flight enable balloons, planes, EVEN birds, to soar.

*Laura Harkewicz, Aerospace Educator, San Diego Aerospace Museum*

**Science and Literacy Standards Through Song**

G

K-14

Plaza J



Sample song-based lesson plans to meet standards and increase literacy in a fun way. Science song products by 16 different teachers/authors, different levels.

*Lynda J. Jones, President, Science Songwriters' Association*

**Meeting Your Needs With The MTV**

G

K-12

MTV



Visit the San Diego County Office of Education's Mobile Technology Vehicle to see what programs and resources they can provide at your school site. Explore internet resources for science teachers, with an expert to assist you. Presented in the Mobile Technology Vehicle (MTV) in Plaza Hall.

*Deen Elder, Ed Tech Resource Teacher, San Diego County Office of Education*

## Friday, 8:30 am - 10:30 am

**Let's Get Wild With Project Wild!**

B

K-6

202

Learn about Project Wild, a standards correlated program. Find out about its easy to follow activities that incorporate many hands-on science experiments for your students.

*Holly Schneidewind, Teacher Casillas Elementary School*

*Cris Ferguson*

**Plasma, The Fourth State Of Matter  
And First Step Toward Fusion**

P, ES

6-12

207

Participants will be able to bring the exciting world of gaseous plasma into the classroom by exploring activities using tesla coils, fluorescent lights, vacuum chambers and much more. Scientific progress of laboratory-based fusion will be presented. Notebook, video, CD, and posters will be provided.

*Alex Nagy, Scientist General Atomics*

**Splashtastic****E****K-6****Copper Room**

See this magic show with a mission. Staged by Emmy Award winning magician Kevin Barnes (aka Dr. Wilderness), you'll learn about properties of water, water molecules, and the water cycle, as well as environmental and water conservation concerns. Learn about this "high energy" assembly program sponsored by Doctor Wilderness, San Diego County Water Authority

**Coral Reef Adventure IMAX:****Introduction To The Educator's Guide (I)****E****K-6****208**

This workshop introduces K-6 teachers to the hands-on activities designed for the new IMAX film "Coral Reef Adventure". Session 1 focuses on feeding adaptations and coral biology.

*Danielle Adler, Marine Science Educator, Birch Aquarium at Scripps*

**Education Beyond The Classroom Door****G****K-12****252**

Discover seventy local trips to connect your classroom to the world. It's fun, easy and affordable using the Classroom Day Tripper. FREE curriculum guide and lesson plans.

*Annette Dietz, Training Coordinator, Metropolitan Transit Development Board*

**Maglev: A Fun, New Approach To Electricity and Magnetism****P****4 & 8****Plaza C**

This magnetic levitation, maglev, unit not only has fun and innovative lessons, but models conceptual flow for standards based science education.

*Dave Massey, Resource Teacher, Santee School Dist.*

*Dr. Lynne Shevinsky*

**Hold On With Friction Labs****P****6-12****Plaza D**

See several simple labs using boards, scales and other simple materials that will teach friction concepts and calculations from simple to complex.

*Holly Eaton, Teacher, La Jolla High School*

*Martin Teachworth*

**How To Access NASA Education****G****K-12****Plaza E**

Learn how to access educator guides, posters, and videos from your local ERC - Free! Resources cover NASA topics of science, math, technology and geography, and align with the National Standards.

*Tami Simmons, Educator Resource Center Manager, NASA Dryden Flight Research Center*

**Virtual Dissection: The Best of the Best****B****7-12****Plaza F**

Take a guided tour of Digital Frog 2, the best virtual dissection software. Borrow it FREE for your class. Receive an itemized list of fulfilled standards.

*Dr. Nancy Harrison M.D., Physician*

*Aaron McDonald, Computer Consultant*

## Conference Committee

**Conference Chairpersons:** Barbara Ritchie

**Registration:** Jelen Rodecker

**Exhibitors:** Chuck Abel

**Program Coordinators:** Chuck Abel

**Technology Coordinator:** Daryl Stermon

**SDSA Liaison:** Patricia Winter

**Publicity:** Steve and Jelen Rodecker

**Featured Speakers:** Conference Committee

**Refreshments:** Jerry Case

**Student Hosts:** Barton Hays

**Share-A-Thon:** Carol Radford

**Audio Visual:** Garry Rollins

**Signs:** Paul Loozen

**College Credit:** ??????????

**Presiders & Evaluations:** Holly Schneidewind, Cris Ferguson

**Graphic Design:** Carla Slowiczek

### PRESENTATION CODES:

**B-**Biology/Life Science

**C-**Chemistry

**E-** Ecology/Environment

**ES-**Earth/Space

**G-**General/Integrated Science

**P-**Physics/Physical Science

**TL-**Teaching & Learning

**ET-**Educational Technology



Literacy Strand



Standards



Technology Strand

**Phil Lafontaine**  
**Time and day???????**

Phil Lafontaine is a Science Curriculum Specialist for the California Department of Education. He works with the State Science Standards, the forthcoming State Science Framework, and other science curriculum and instruction issues. Phil is a former middle school and high school science teacher and K-12 Alliance staff developer.

**Diane Hernandez**  
**Time and day???????**

Diane Hernandez is a Science Assessment Specialist for the California Department of Education. She works with the Standards and Assessment Division of the department, on how science standards will be tested at all grades K-12.

## General Information

**Seating** in some sessions may fill quickly, so please try to arrive early. Although we try to match room size to the type of presentation, attendance is not always predictable.

**Information and Hospitality:** Look for the Hospitality Table in the foyer of the Concourse lobby for any questions regarding room locations, parking information, maps, meals or **Lost and Found**. Student hosts also will be circulating to help you find meeting rooms, restrooms or other locations. We will do our best to make you feel welcome and to help solve any conference-related problems.

**Parking:** As much as we would like to, we are unable to validate any parking. You are encouraged to avoid parking problems by riding the trolley and exiting at the Civic Center stop in the immediate vicinity of the Concourse. The station for the Coaster rail service from North County is just a short walking distance. Save frustration, gas and be ecologically friendly - use public transportation!

**Food:** A complete no-host meal and beverage service will be available all day Friday and until noon on Saturday in the back of the Golden Hall Exhibit Area.

**Message Center** will be located next to the Hospitality Table. The Concourse number is (619) 615-4100. Check the bulletin board for messages.

**College Credit:** You can obtain San Diego State University Extended Credit, one semester unit, by paying \$50 and attending sessions at this SDSEA Conference. Register on Friday between 7:30 am and 10:00 am at the College Credit booth in the Registration Area. **Credit/No Credit only.**

**Exhibits** are located in Golden Hall, where you will find the latest textbooks, hardware, software, audio-visual materials, laboratory equipment, and business-sponsored educational materials. Golden Hall Exhibit hours are from 8:00 am to 4:00 pm on Friday and 8:30 am to 1:00 pm on Saturday.

**Evaluations:** SDSEA would appreciate your evaluation of individual sessions and the overall conference. What can we change to make your conference experience more rewarding? We need to hear from you! Evaluation forms are distributed randomly at each session. If you do not receive an evaluation form and you wish to comment on a session or have suggestions for improving the conference, stop at the Registration Desk and ask for an Evaluation Form.

## **Splashtastic**

**Friday, 8:30 am in the Copper Room (228)**

Emmy award winning master magician Kevin Barnes (a.k.a. Dr. Wilderness), will perform the high-energy educational magic show "Splastastic", sponsored by the San Diego County Water Authority. You'll learn about the properties of water molecules, and the water cycle, as well as environmental and water conservation concerns.

## **Michael Klentschy Ph.D.**

**Friday, 10:00 am in the Copper Room (228)**

Michael Klentschy Ph.D. is Superintendent of the El Centro School District. He received his doctorate in assessment and evaluation from UCLA. He is also currently the Principal Investigator (PI) for the NSF funded Valle Imperial Project in Science (VIPS) and has served as Co-PI for several NSF funded elementary science initiatives with CAPSI at Cal Tech. He is part of a university research team studying the longitudinal effects of inquiry-based science programs on student achievement; and is currently working with Dr. James Stigler of UCLA on the development of video-based technology for preservice, professional development and lesson study applications.

Dr. Klentschy was named the Southern California Superintendent of the Year in 2001 by the Association of California School Administrators. In addition, the California Science Teacher's Association acknowledged his efforts by naming him the Administrator of the Year in 2001.

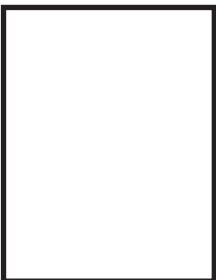
## **David M. Seidel**

**Time and day???????**

David M. Seidel is the Manager of Pre-College Programs at the NASA/Jet Propulsion Laboratory in Pasadena, California. He is also a member of the Mars Exploration Program Public Engagement Team.

His voice, if not his face, is familiar to many. David was the NASA Television "Mission Control" commentator for Mars Pathfinder, Mars Polar Lander, Mars Odyssey among other NASA missions. In this capacity he not only reported on mission events as they unfolded but translated and explained the technical jargon and concepts for the public audience. For his education work across JPL and with NASA, David has received the NASA Exceptional Service Medal.

With JPL since 1990, he has a Masters of Science degree in Science Education from USC and is a Superintendent's Advisory Board Commissioner for the Beverly Hills Unified School District. Prior to joining JPL he was a science teacher and planetarium director at Beverly Hills High School. One of his hobbies is sailing on Mission Bay. His fourth grade son doesn't think that he wants to be an astronaut when he grows up but his dad is making sure that he keeps the option open.



## **Deborah Tucker**

**Time and day???????**

Deborah Tucker is a Science Curriculum Consultant for the California Department of Education. She works with the State Science Standards, the forthcoming State Science Framework, and a wide range of science curriculum and instruction issues. She is a former science teacher and former president of the California Science Teachers Association.

**Share-A-Thon****Friday, 8:00 am-4:00 pm****Saturday, 8:30-1:00 pm****Golden Hall Exhibit Area**

The Share-A-Thon is informal. Stop by any time — presentations change hourly. Discover a variety of science activities, projects, and demonstrations that you can use in your classroom. Handouts will be available.

**Exhibitor Bingo****Saturday, 8:30 am-12:00 pm****Exhibit Area of Golden Hall - Gather stamps****Drawing - Saturday, 12:00 pm in the Exhibit Area**

Exhibitor Bingo is back for a fourth year by popular demand! We will again award FIVE shopping spree prizes of \$100 each. Three of the five winners will be new teachers. Pick up your BINGO Cards at the Registration Desk. Have your BINGO cards STAMPED BY THE EXHIBITORS ON Saturday between 8:30 am and noon as you visit the exhibit booths. Your completed cards will go into a collection box for a drawing to be held at noon on Saturday in the Exhibitor Area of Golden Hall. Winners will then have one hour to shop at any exhibitor booth(s) they choose, spending their \$100 worth of credit. Winners must be present at the drawing and make their selections in the hour following the drawing. All shopping is paid for, compliments of SDSEA!

**Door Prizes****Two Drawings****Friday, 5:00 pm, Copper Room 228****Saturday, 2:00 pm, Cooper Room 228****After the featured speaker presentations**

Thousands of dollars worth of door prizes have been donated by our exhibitors. These great items will be awarded in two separate drawings immediately following the speaker. To enter the door prize drawing just drop the door prize ticket from your registration information sheet (which includes your name tag, receipt, etc) at the door of the Copper Room. Don't miss the door prizes, a great bonus for attending the SDSEA Conference! Winners must be present at the time of the drawing to pick up their prize.

**Splash Mobile Science Van****A Field Trip That Comes to Your School****Friday, 8:00 am-3:45 pm****Saturday, 8:00 am-12:00 pm****Parked In Plaza Hall**

The Splash Science Mobile will come to your school and present your students with a meaningful hands-on scientific experience. The students will use experimentation and teamwork to investigate a water quality problem. The curriculum is aligned with the California Science Content Standards for the 4<sup>th</sup>-6<sup>th</sup> grades. The lab is fully self-contained with scientific equipment and multiple workstations. It can serve up to 4 classes in one day. The Splash Science Mobile will be parked at the rear of Plaza Hall.

**Mobile Technology Vehicle (MTV)****Friday, 8:00 am-3:45 pm****Saturday, 8:00 am-12:00 pm****Parked in Plaza Hall (Refer to Concourse Map)**

The San Diego County Office of Education's MTV is a computer lab on wheels. The MTV is available to visit schools and provide a venue for teachers to preview the latest software in a hands on environment. It can also be used to train students and/or teachers on the classroom software. Workshops are held each hour. Please refer to the program for specific time and title.

**The Green Machine****Friday, 8:00 am-3:45 pm****Saturday, 8:30 am-12:00 pm****Parked inside the entrance to Plaza Hall**

The Green Machine comes to your school equipped with an interactive, in-the-class exploration program. The curriculum describing the journey of a seed as it grows into a fruit and arrives at your table is aligned with the California Science Standards for the 4<sup>th</sup>-6<sup>th</sup> grades. The program includes a directed narrative, a water cycle station, a soils research station, and an integrated pest management station. The material is presented in an entertaining and engaging manner that will captivate your students and make their learning fun. Attend the Open House in the van anytime during the conference.



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## Conference Schedule At A Glance

### Friday Events

Doors Open at 7:30 am

**On-Site Registration** in the Main Lobby

**Continental Breakfast:** 7:40 am - 8:00 am/Exhibits Area

**Exhibits Open in Golden Hall:** 8:00 am - 4:00 pm

**Workshops & Sessions:** 8:00 am - 3:45 pm

(See Program for specific session time and location)

**Share-A-Thon in Golden Hall:** 8:00 am - 4:00 pm

**Splash Van in Plaza Hall:** 8:00 am - 4:00 pm

**Green Machine in Plaza Hall:** 8:00 am - 4:00 pm

**Featured Speakers:** 8:00 am-12 pm & 4:00-5:00 pm

**Door Prize Drawings:** 5:00 pm in Copper Room

### Saturday Events

Doors Open at 7:30 am

**On-Site Registration** in the Main Lobby

**Continental Breakfast:** 7:40 - 9:00 am/Main Lobby

**Exhibits Open in Golden Hall:** 8:30 am - 1:00 pm

**Workshops & Sessions:** 8:00 am - 12:30 pm

(See Program for specific session time and location)

**Share-A-Thon in Golden Hall:** 8:30 am - 1:00 pm

**Splash Van in Plaza Hall:** 8:00 am - 1:00 pm

**Green Machine in Plaza Hall:** 8:00 am - 1:00 pm

**Exhibitor Bingo:** 12:00 noon in Golden Hall, Exhibitor Area

**Featured Speaker:** 1:00 - 2:00 pm

**Door Prize Drawings:** 2:00 pm in Copper Room

## A Message From the Conference Chair

The SDSEA Board of Directors and members of the conference committee extend a sincere welcome to the attendees of the 18<sup>th</sup> annual Science Conference, *SCIENCE: Connecting Literacy, Achievement and Standards*. So much is happening in science and technology that can easily be incorporated into the K-12 classroom and capture the interest of our students. As educators we all strive to increase the active participation and academic success of our students. Each year SDSEA strives to provide teachers of all grade levels a wide variety of conference session topics featuring activities and curriculum material readily useable in the classroom. The conference committee makes a concerted effort to provide speakers who will present the widest variety of topics for all grade levels. We continue to support the belief that all branches of science have interlaced tendrils that relate topics such as math, chemistry, physics, and biology to literacy, art and music curriculum. We sincerely believe science fits into every grade level and every subject.

The goal of the conference committee is to bring educators of all grade levels a wide variety of well tested, hands-on activities that excite and encourage students to further explore science topics. You will find sessions presented by educators of excellence eager to share their successful activities with other educators. Many exhibitors have the latest, greatest, most exciting equipment, supplies and student rewards for your perusal and purchase.

From the conference committee and the chair, we welcome you and sincerely hope that you find this year's conference a rewarding and educationally profitable experience. We hope that SDSEA can continue to provide its membership with quality events.

Barbara Ritchie

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## Technology Strand Acknowledgements

For the fifth year the SDSEA will be presenting a Technology Strand as part of its conference schedule. This feature is made possible by the generosity and support of San Diego Computer Using Educators (San Diego CUE), the San Diego County Office of Education, and CSG Visual Communications.



San Diego CUE members listed below offer their expertise and labor each year to help make this part of our conference a success. Most of the computers are provided through the generosity and efforts of Daryl Stermon and the San Diego County Office of Education. Internet Connectivity for this year's conference is provided through the courtesy of La Jolla Country Day School. San Diego CUE provides the local area network, server and volunteers who keep the system operating smoothly throughout the conference. CSG Visual Communications, through the assistance of Account Manager John Agnew, supply most of the video/data projectors used in the technology rooms. SDSEA wishes to thank them all once again for their continued generosity and support.

We also wish to acknowledge the continuing efforts of several individuals that provide the hardware, connections, and labor necessary to make the Technology Strand functional. These are all unpaid volunteers who, like you, have full time jobs and dedicate their efforts because of a love of teaching, science and technology. A special thank you goes to Daryl Stermon of the San Diego County Office of Education, Quoc Vo of La Jolla Country Day School, and Todd Lanzi-Sheaman of Bishops School. All three have been here each year starting early Thursday morning, staying late each night and not leaving until late Saturday. They deliver, set-up, troubleshoot and keep the computer network up and running. Thank you, one and all!

