



San Diego Sport Innovators is seeking assistance from students, graduates and professors in the fields of physics and engineering to make science simple for kids and parents at an interactive sports event during the San Diego Science Festival. Volunteers will be matched with entrepreneurs/inventors and exhibit reps to help explain some of the science behind the sports we love. In addition to helping kids get excited about science and engineering, this will be a great networking opportunity to meet the companies and people who are contributing the sport technology that is being displayed.

We are requesting your help for a **two hour period** during an all day event at the San Diego Hall of Champions, Tuesday, March 22, 2011. If you are able to share some time with us, please reply to Madelaine Holden, mholden@connect.org.

Event overview:

Science of Sports – an event during the San Diego Science Festival

Sponsored by Bridgepoint Education

Tuesday, March 22, 2011 (10am-4:30pm) at the San Diego Hall of Champions, Balboa Park

How do waves work? What elements go into designing a surfboard? How does air pressure affect your mountainboard ride? How does the shape of your baseball bat affect your hitting experience? Join us and find out! It's a full day of excitement with sports displays including a wave machine, skateboard ramp, interactive surfboard shaping and baseball hitting machines. Interact with exhibits, talk to entrepreneurs and athletes and learn from scientists and engineers.

As an event during San Diego Science Festival week, this special program is anticipated to attract up to 3000 people over the course of the day.

We are looking for articulate volunteers in physics and engineering (mechanical, fluidics, materials, etc.) Examples of the planned exhibits that need a "science made fun and simple" volunteer, include:

Examples of display and subject matter for a volunteer:

Skate ramp- Skateboard ramp technology, ramp design, plastics

Mountainboard- How does tire pressure affect you mountain board ride? (control, speed, etc.)

Indoor Snowboard training tool- What is the proper design and mold to use in order to simulate boarding experience?

Surfboard shaping demo- design elements that go into shaping a surfboards.

BINN Snowbike- airsprung suspension, breaking system, lightweight allumimun

Inboard hydroplane boat- how does speed and velocity allow the boat to remain on the surface of the water?

Football- aerodynamics/shape of the ball

Baseball hitting machines- how ball trajectory and shape of the bat effect your hitting experience

Motocross- how the engines enable the bikes to reach such heights and how gravity allows riders do tricks off the bikes.

PipeBoard training devise (balance training tool for extreme tricks for all board sports) - balance, how diameter of pipe effects difficulty

Basketball hoop- launch angle, release point and backspin

More information about the Science Festival [here](#).

SD Sport Innovators (SDSI) is a business accelerating trade organization that connects and drives the growth of Southern California's vibrant sports economy by offering innovative programs and services for start ups, mature companies and service providers. We offer mentoring, education and capital funding opportunities for start-ups; best practice collaboration, access to new technology, and public policy advocacy for mature companies, and deal flow to our service providers and the San Diego investment communities. For more information, please contact Renne Catalano at rcatalano@connect.org.