Program Information
Friday, July 18, 2014

Orange County CSI Chapter
July Meeting

Program: Aloha! It’s time for a LUAU on a Friday night!
E komo mai, e noho mai, e ’ai a e, wala’au!
(Come in, come sit, come eat and talk story!)

This summer, the Western Wall & Ceiling Contractors Association (WWCCA) will become our “Hawaiian” location for our 4th Annual OCCCSI Luau. You are invited to come and enjoy an evening of pure social enjoyment, island style. We will enjoy island music, videos of paradise, eat ono delicious food and take some time to talk story together and make some new friends.

WWCCA invites Orange County Chapter CSI members and their guests to a LUAU that will feature the best Polynesian entertainment ever seen on the Big Island of Orange County, California. The entertainment will be provided by Tupua Productions (www.tupuaproductions.com). This year, our CPSE trade show caterer, A Splendid Touch, will prepare a fabulous feast for us!

WWCCA is the oldest, most active Wall & Ceiling Association in the west. They have been a functioning entity for more than 100 years. WWCCA is a non-profit organization representing over 85 subcontractors and 100 affiliates that have joined to promote the installation of quality.

Time:
5:30 - 6:30 PM Social
6:30 - 7:30 PM Luau Dinner
7:30 - ??? PM Luau Program Entertainment by Tupua Productions

Location:
WWCCA
1910 N. Lime Street
Orange, California

Parking: Plenty of free parking

Dinner Cost: $30.00 Cash/Check discount with reservations.
$40.00 without reservations at the door.
(No-show reservations will be billed)

Reservations required by July 15. Call the OCCCSI hotline at 714-434-9909.
The OCCCSI Board of Directors has a fiduciary responsibility to all of its members. Those members and others who choose to purchase events or opportunities by check or cash will receive a discount. Discounted prices will appear in the newsletter and PDF announcements via emails. Those who choose to use their credit cards will be able to purchase at the price printed on line at our website, occcsi.org. Credit card transactions must be made by the printed deadline in the newsletter or in person at monthly meeting events. Credit card purchase for CPSE trade show registration and exhibit space will NOT be accepted the day of the trade show. This policy is effective on April 8, 2014 by Board approval.

Key aspects of our privacy policy for credit card transactions include:

- We never sell, share, trade, or disclose any of your personal information.
- We use a credit card processing company to bill users for events and opportunities. Our credit card processing company is not authorized to retain, share, store, or use your personal information.
- We require the entry of only enough information about you to process your transaction.

See our website, occcsi.org, for further disclaimer information.
COMMENTS FROM DAVE

Dear Fellow CSI Members,

Those of you who had the great opportunity to attend our Annual Golf Tournament know you had a great time. Those of you who didn’t really missed a great event loaded with good food, good fellowship and of course good golf. I want to take this opportunity to thank all the sponsors of our tournament. Malarkey Roofing, sponsored the dinner, beverage cart and a hole, wow, thank you Malarkey Roofing. Thank you to all our other sponsors, Smalley & Company, WWCCA, UPI Group of Companies, Omega Products, Dal Tile, Crossfield Products, Forgione Sales, Dow Corning, Mapei, Dryvit, Sunshine Supply, BASF, Siplast, CENTRIA, Fibertite, Black Diamond, Vermont Slate, Bravatile, Sika, B to B Architectural Specialists, DM Floors, WR Meadows, Behr Paint, DP Enterprises and L2 Specialties. Without you we would not even have a golf tournament.

I also want to personally thank John Corsaro, from Smalley Company, and his entire committee for their tireless effort in putting this tournament together. Thank you, John.

We had a fantastic joint meeting with RCI on Air Barriers at the Phoenix Club. Mr. Laverne Dalglish, Executive Director of the Air Barrier Association, presented the many benefits of energy conservation in buildings with the installation of air barriers. He showed us where these benefits would include durability, comfort, reduced maintenance, reduced HVAC equipment costs and the positive impact on the environment. It was a great meeting with a large turnout. We are planning on making this an annual event with our RCI membership.

We had the Installation of new officers in June. It was a very special event. We missed you if you were not in attendance.

Our annual Dinner and Luau will be in July. Our Construction Products & Services Expo, 2014, to be held at the prestigious Marconi Automotive Museum & Foundation for Kids in Tustin, is in September. Exhibit spaces are available now and are going fast. Reserve yours today so not to miss out of OCCCSI’s “Greatest Show in Orange County”. We are planning a “50’s” Theme for the show to coincide with our 50th Anniversary in 2015.

We have several fantastic events and presentations planned. You need to come to the chapter meetings and get involved with the several committees we have organized. The chapter meetings and events are not the same without our members. This is your chapter, you need to support it.

Hope to see you in July at our annual Luau.

Dave
What if an organization you belong to is potentially making your job obsolete? What if an organization you BELONG to is making it easy for design professionals to do without architectural product representatives and specifiers. How can a trade organization compete with some of its own members? Pay to Play is the answer.

A dear CSI friend of mine asked me how CSI could purchase a vehicle for specifications that competed with our specifier members. Furthermore, she reasoned that it endangered the jobs of architectural representatives since an architect could just select the easily provided and limited product choices – canned specs. In order to be in those specifications, manufacturers pay in order to be placed in their division – pay to play.

For many years, the ranks of architectural representatives have dwindled. This trend is nothing new. In addition, the project fee compensation for design professionals/specifiers has dwindled. Just like the owner and primary architect that decides to spend less than 3% on specifications, manufacturers are deciding to “pay to play” instead of maintaining employees to make architectural calls. How can the company save and increase profit? Corporate greed trumps personal contact with design professionals. Oh boy, let’s cut out the employees that promote and obtain specs. Let’s pay to play and buy us some canned specs!

A case in point “crossed my desk”. While qualifying a waterproofing lead with an architect (not a CSI member), the gentleman informed me that his specification came from BSD Speclink. He told me that he could not remember what he selected for his project. He was glad I called, because an issue had arisen and he needed to find out what his specification called out. Did he have architectural representatives calling on him? He does not welcome them. He informed me that he is saving time AND money by just using his canned specs. This guy will understand the importance of specifications when he has legal trouble with a project and the attorneys want to see his specifications FIRST.

At a time that membership is dwindling, CSI decides to go into business competing with some of its members. None of the reasons for this purchase make any sense. The predominant reason is “other trade associations do it”. What is crystal clear is that CSI members are NOT in the driver’s seat in our national organization. Most members rely on their chapter for the value of CSI membership anyway. Why do we need to have a layer of organization that takes the most amount of our membership dollars and provides SO little? On top of that, they are in competition with some of their members. Stay tuned.

© 2014 Annette Wren, FCSI, CDT
Annette Wren is a Business Management Consultant assisting privately held companies and employee-owned companies.
I don’t know how this issue has escaped me for nearly forty years, but I’m not alone. In that time, I have occasionally talked about coefficient of friction for floors, but I just discovered there has been no widely accepted standard for slip resistance. Not only that, but neither the IBC nor ADA define slip resistance, even though both require slip resistant floors and walkways.

How the heck is that possible? Think of all the very specific requirements in the building code. How did they miss this one? And think of ADA, with its Byzantine combination of Spock-like precision in some areas, and a “Take a guess and we’ll see you in court” approach to other requirements. How can it be that the good folks who write the ADA requirements know exactly what so many dimensions must be, but they have no idea what they mean by slip-resistant? It seems to me that not falling on your arse is a lot more important than a quarter inch difference in the location of a water closet, but this apparently - no, this obviously important performance characteristic has had no definition.

The IBC, in 1003.4, requires that “Walking surfaces of the means of egress shall have a slip-resistant surface and be securely attached” but does not define what slip resistance is. Apparently, the IBC doesn’t care about floors not in an egress path.

According to the US Access Guide:
Accessible surfaces must be slip resistant ... However, the standards do not specify a minimum level of slip resistance ... because a consensus method for rating slip resistance remains elusive. While different measurement devices and protocols have been developed ... a widely accepted method has not emerged. Compliance with the standards requires specifying surface materials, textures, or finishes that prevent or minimize slipperiness under the conditions likely to be found on the surface. Standard practices for minimizing floor or ground slipperiness will likely satisfy compliance with the standards ... [my emphasis].

Makes you feel all warm and fuzzy, doesn’t it?

It’s not that there are no standards related to slip resistance. We have:
• ASTM C1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
• ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured
**CPSE 2013 EXHIBITORS**

We are proud to present our exhibitors from our Construction Products & Services Expo 2013. This column will report on groups of the exhibitors in each issue right up to the next show. Learn more about them right here!

**Tnemec:** Since 1921, Tnemec has been manufacturing High Performance Coatings for all surfaces and projects ranging from Commercial, Institutional, Industrial, Sports and Recreational etc. Choose any substrate in any environment, no matter how extreme, ordinary paint won't stay in the game, but not with Tnemec. Tnemec sales representatives are actually coating consultants. They'll answer all your questions, know what questions to ask, clarify a specification or even help write, making sure everything is right long before any coating is applied. When long term performance and aesthetics are a must, the answer is Tnemec. Contact: Tony Hobbs, Tnemec Representative; Tel # 310-804-2326; and website www.tnemec.com

**MAPEI Group,** with 68 subsidiaries including 63 plants on 5 continents, is today the world leader in the manufacturing of adhesives and complementary products for the installation of all types of floor and wall coverings. The company also specializes in manufacturing other chemical products for building, from waterproofing products to special mortars and admixtures for concrete, products for the restoration of ancient buildings and special decorative and protective coatings for walls. Eighteen MAPEI manufacturing facilities are located in the Americas, with headquarters in Deerfield Beach, Florida. Wherever your project we have you covered. Mapei Corporation - 1144 Newport Center Drive; Deerfield Beach, FL 33442; Phone: 800-426-2734. Contact: Mike Grantowski - National Manager Architectural & Commercial Projects, (949) 212-2363. Lisa Fyke - Architectural Sales for So CA, AZ, HI; (909) 247-5324

**Parex USA,** parent company of Parex, Teifs, LaHabra, ElRey, Merekrete and Variance brands, provides high-performance building material solutions, including: energy efficient cladding solutions (EIFS & stucco) • air & water-resistant barriers • manufactured stone masonry & veneer assemblies • floor tile mortars • wall tile adhesives & thin sets • crack bridging membranes • grouts & shower pan membranes • dampproofing & waterproofing solutions • abuse & impact resistant finishes • Venetian Veneer Finishing Systems • specialty coatings & finishes • fade resistant colorants, and more. Contact: 866.516.0061; www.parexusa.com. Parex USA, Inc. – Anaheim CA: Keith Simchuk (714) 319-7690 or Susan Foster (714) 319-3186.

**Stego® Wrap Vapor Barrier** is the leading below-slab vapor barrier in the United States. Moisture vapor and soil gases from the ground can adversely impact a building's energy efficiency, indoor air quality, and building components. Recent changes in CA building code, nationwide governing standards, and industry recommendations necessitate further attention to proper vapor barrier specification, selection, and installation. Stego Industries is devoted to maintaining a standard of continuing education and technical support. Contact Paul George, your Southern CA Regional Manager, to learn more about Stego Wrap and the science behind proper below-slab moisture vapor protection. (949) 257-4100; paulgeorge@ste.goindustries.com – www.stegoindustries.com.

**Draper** offers new solutions to reduce energy costs while maintaining views, glare control and natural light. Working on Net Zero Projects or wanting to reduce energy use in your projects Draper has the system. Contact: Kathy Greenway; email: kgreenway@draperinc.com

**LUCCON** is a high-density precast concrete with translucent optical fibers. The light conduction transmitted by the optical fibers allows light, shadows and colors to be seen through the concrete. Usually Luccon is backlit with LED lights or panels. The latest development is Luccon Design. A new productions process where the fibers can be placed individually according your own design or drawings. Luccon Design is offering new solutions and innovative opportunities in modern architecture. In fact the applications are literally countless and up to the imagination of the designer. Contact: Luccon Translucent Concrete - Bertram Kiesling, Mobile: +1 818 568 2984; www.luccon.com; Showroom Soli Stone: 8483 Melrose Ave Los Angeles, CA 90069; Showroom coming soon: 9920 Research Drive Irvine, CA 92618
Event: Construction Products & Services Exposition 2014
Marconi Automotive Museum & Foundation for Kids
1302 Industrial Drive
Tustin, California

September 9, 2014

Sponsor: Orange County Chapter Construction Specifications Institute

Invitation:
• You are invited to participate as an exhibitor.
• Architectural seminars with AIA/CES credit prior to exhibits.
• Display your products for local design professionals, owners, contractors, facilities managers and others.
• Exhibit hours are 4:30 p.m. to 7:30 p.m.
• Gourmet hors d’oeuvres passed during exhibit hours.

Reservation: Please make your check payable to the Orange County CSI Chapter. Upon our receipt of your check, you will then receive set-up details and location confirmation. No credit card reservations will be accepted after August 29th. For questions, please call Bryan Stanley (714) 221-5520 E-MAIL: bryan@tsib.org; or Gary Kehrier (949) 589-0997

Discount check/cash
Prices of Exhibits:
Tabletops (6’ x 2-1/2’ table).................................$700.00 each
Mini-Booths (8’ x 2-1/2’ table)............................$800.00 each
Booths (approx. 10’ x 8’)....................................$1,000.00 each

For credit card transactions and prices go to our website at occcsi.org until August 29th

Mail to: Orange County CSI Chapter
Post Office Box 8899
Anaheim, CA 92812

RETURN THIS PORTION WITH YOUR CHECK

Event: Construction Products & Services Exposition 2014
September 9, 2014 - Marconi Automotive Museum & Foundation for Kids

Amount Paid: ...........................................................................................................$______________________________

Contact Name: ________________________________________________________________________

Company Name: _______________________________________________________________________

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Phone Number: __________________________________________________________________________

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California’s Building Energy Efficiency Standards are updated approximately every three years, with new 2013 standards in effect as early as July 1, 2014. Session One will explore changes that will impact residential Title 24 Standards while session number two will concentrate on non-residential changes.

This seminar will explore changes that impact residential and non-residential Title 24 Energy Efficiency Standards. Discussion will focus on how these updates are intended to achieve significant energy savings through the development of reasonable, responsible, and cost-effective code change proposals.

Speaker: Martyn Dodd has written software used in California for Title 24 energy code compliance over three decades, Mr. Dodd is principal of EnergySoft, a Bay Area company that specializes in performance based energy analysis. He is one of the original authors of the 1992 Nonresidential Alternative Calculation Method (ACM) manual, which defines the rules for code compliance software. It has become the model for both national and international code compliance software procedures.

Mr. Dodd is the author of the EnergyPro, COMPLY 24, and Perform 2001 software programs, which are used extensively throughout California for code compliance. He also wrote the NECB Comply software for the government of Canada, used for performance-based code compliance with the Model National Energy Code of Canada.
Orange County Chapter of the Construction Specifications Institute  
OCCCSI Turns Golden!  
Construction Products & Services Expo 2014  
Tuesday, September 9, 2014  
Marconi Automotive Museum & Foundation for Kids  
Seminars  
California’s Building Energy Efficiency Standards  
Speaker: Martyn Dodd  

Residential Session One:  
2:00 – 3:00 PM  
Non-Residential Session Two:  
3:15 – 4:30 PM  

California’s Building Energy Efficiency Standards are updated approximately every three years, with new 2013 standards in effect as early as July 1, 2014. Session One will explore changes that will impact residential Title 24 Standards while session number two will concentrate on non-residential changes.  

The theme is OCCCSI Turns Golden! The Chapter will turn 50 in 2015. We will celebrate with a 50’s theme at this event. Dress in your best 50’s attire and enjoy! Contests for the best decorated exhibitor and attendee will be held.

Pre-Registration Form  
☐ YES, I WILL ATTEND THE SEMINARS AND TRADE SHOW  
☐ YES, I WILL ATTEND THE TRADE SHOW ONLY.  
Make a badge for (Please Print)  
Name: ____________________________________________________  
Title: ____________________________________________________  
Company: ________________________________________________  
E-mail: __________________________________________________  
FAX: (714) 221-5535; E-mail: bryan@tsib.org; Attention: Bryan Stanley  
Questions: Call Bryan Stanley at (714) 221-5524; E-mail: bryan@tsib.org; or Gary Kehrler at (949) 589-0997  
Attendance is free. 3 AIA/CES (Continuing Education Hours) will be available. Register early!  
Door prizes are for design profession and non-exhibitor attendees only. Non-exhibiting industry and manufacturer’s representatives entry fee: $20.00.
RCI & OCCCSI Joint Meeting
Photos by Royce Wise, AIA, CSI, CCS
May 16th OCCCSI Golf Tournament

Photos by Annette Wren, FCSI, CDT
May 16th OCCCSI Golf Tournament
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A Short Bright Flash, Augustin Fresnel and the Birth of the Modern Lighthouse describes a key scientific development of the early 19th Century that revolutionized seafaring commerce. The book also includes observations on the state of science and engineering education at the time and shows why France held a superior position in these fields relative to England and the United States.

The lens invented by Fresnel is the universal means by which all lighthouses have been lit since the 1820s when it was first used by Fresnel in the light at Cordouan, France. Even though lighthouses have been supplanted to a large degree by GPS based navigation systems, they are still a familiar and comforting sight for sailors on many coastlines. Unlike mirrors that were used in lighthouses prior to Fresnel’s invention, the lens focuses nearly all of the available light energy into a more effective beam of light. This was done by means of a series of concentric, ground glass prisms positioned on four sides of the light that greatly increased its brightness and range. This was a revolutionary application of scientific theory and engineering calculation accompanied by highly developed French glass technology.

Prior to Fresnel’s invention lighthouses were lit by simple open flames, (sometimes just a crude bonfire), or later by using an oil burning lamp positioned in front of a concave mirror at the top of a stone tower. At best, these would project light only a few miles from shore resulting in many ship wrecks with attendant loss of life and cargo. Fresnel’s lens enabled light to be visible to the horizon. With the advent of steam powered ships in the 19th century, this would become a critical safety measure since steam ships traveled at speeds much greater than older sailing ships.

England resisted using Fresnel’s lens until 1842 out of a sense of national pride. Likewise, the US was slow to adopt the new technology as a result of penny pinching bureaucrats in the federal government in Washington. This was in spite of the fact that the US had the largest merchant marine fleet in the world at the time and, as a result, had a great need for improved navigation aids. Under the leadership of the US Army Corps of Topographical Engineers it wasn’t until 1859 that all 500 US lighthouses had a Frenchmade Fresnel lens.

Augustin Fresnel was born in 1788 in Normandy, the son of an architect. He was an especially good student of math and science and graduated from the Ecole Polytechnique in Paris in 1804. Fresnel continued his study at the French National School of Roads & Bridges, the world’s first school of engineering, before embarking on career as a road engineer. His road and bridge building didn’t last very long once his skill in the physics of light was recognized. By 1820 his first prototype lens was completed, measuring 22” per side and consisting of 97 prisms. It was a great success and lead to the construction of enough lighthouses on the coast of France so that no point was beyond the range of a light.

The Ecole Polytechnique was established by Napoleon to train engineers for the French army. It’s interesting to note that the first school of engineering in the US wasn’t established until 1819. This was located at the US Military Academy at West Point and was based on the curriculum used at the Ecole Polytechnique.

As further evidence of France’s superior position in the world of science and engineering recall that Pierre L’Enfant, also a military engineer, proposed in 1792 a plan for the layout of Washington, DC. which is the basis for the design of the city we know today. Other examples in the French tradition of engineering achievements are the construction of the Suez Canal by Ferdinand De Lesseps from 1860 to 1869 and the Eiffel Tower, designed by the engineer, Gustaf Eiffel and constructed in 1890.

The book was written by Theresa Levitt. It was published by W. W. Norton & Company in 2013. It has 281 pages including many archival drawings of lighthouses the Fresnel lens. For those of you who might be interested, there is also a section explaining the physics of prisms.

May 16th OCCCSI Golf Tournament
Photos by Annette Wren, FCSI, CDT
New & Renewing OCCCSI Members

Thank you to the following Orange County Chapter CSI members who have chosen to join our chapter or renew their membership (results from March to April 2014):

Atkins, Raymond
Baker, Webster
Butterfield, Rod
Domenici, Thomas
DeGraw, Supranee
Farinsky, Gregory
Franklin, Kevin
NEW MEMBER! Johnson, Keith
Kaatz, Dustin
Kovacevich, Mark
Lundberg, Kevin
Maietta, Dave
Marquez, Mo
Matteo, Richard
NEW MEMBER! Mgaloblihsvili, Tamara
Muscat, Shari
Neal, Brad
Olson, Dane
Overmyer, Vince
Poole, Chuck
Regener, John
Riley, Michael
NEW MEMBER! Sesma, Fernando
Stovner, Eric
Wensel, Kevin
Wiegandt, Daniel
Woods, Nathaniel
by the James Machine

- UL410 Slip Resistance of Floor Surface Materials (similar to ASTM D2047).

Surely, with all those standards - and there are many more! - determining what slip-resistance means should be easy. Well, not quite. As noted, some of the standards have been withdrawn, and, with a couple of exceptions, most are test methods or discussions of slip resistance only that do not set minimum standards.

To make things more interesting, there is strong disagreement about the validity of various test methods and equipment. For example, the Ceramic Tile Institute of America (CTIOA) objects to the use of ASTM C1028, claiming it is "widely recognized as being inappropriate for assessing pedestrian safety" and that it "can give 'safe' ratings to very slippery materials." CTIOA and others argue that ASTM C1028, which measures static coefficient of friction, has little to do with real-world slip resistance. Furthermore, the ASTM C1028 test method is limited to the laboratory, which makes it useless for testing in-place conditions.

Some of the standards specify a coefficient of friction, but do not indicate if it is for wet or dry conditions, or do not specify the test method. Given the different materials and methods used for testing, those standards mean nothing. An additional complication is inherent in the nature of the products: we walk on them, so normal wear reduces their slip resistance. Unless there is a maintenance program to replace flooring as the coefficient of friction changes, does it make sense to specify a property that may be valid only for a couple of years?

Another contentious issue is the test condition; most tests are done dry. Even if a test is performed under wet conditions, there is little agreement about what those conditions should be. How wet is wet? Should the tests be performed with deionized water? Or with a soap solution? What about oil? Or, for that matter, banana peels?

The test methods themselves present more variables; the flooring itself is only one of the materials used in a test. Many of the older tests use leather, presumably because that was a common material for shoe soles. Being a natural material, leather is not consistent from one sample to the next. Today, many shoes use something other than leather for soles, and it’s likely that the coefficients of friction vary from one material to another. It is clear that no single test will be applicable in all situations, or that it will accurately replicate even one real-world condition.

One of the more recent standards is ANSI B101, which is unique in its extent. Much more than a test method, it includes a discussion of slip-and-fall dynamics and factors that affect slip resistance of all walkway surfaces. It sets three traction levels: High, with a static coefficient of friction (SCOF) greater than 0.6, Moderate, at 0.40 to 0.60, and Low, at less than 0.40.

It doesn’t look like this issue will be resolved anytime soon. Perhaps it’s just too slippery.

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## MEETING SCHEDULE AND INFORMATION

Make reservations by the Friday preceding the meeting. Call the Chapter Hotline at (714) 434-9909

### UPCOMING MEETINGS:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JULY 8</strong></td>
<td>OCCCSI Board Meeting (5:30 P.M.)</td>
<td>Thompson’s Design Center, 1716 Case Road, Orange, California</td>
</tr>
<tr>
<td><strong>JULY 18</strong></td>
<td>Luau OCCSI Meeting (5:30 P.M.)</td>
<td>WWCCA, 1910 N. Lime Street, Orange, California</td>
</tr>
<tr>
<td><strong>AUGUST 1</strong></td>
<td>Newsletter Deadline</td>
<td></td>
</tr>
<tr>
<td><strong>AUGUST 12</strong></td>
<td>OCCCSI Board Meeting (5:30 P.M.)</td>
<td>Thompson’s Design Center, 1716 Case Road, Orange, California</td>
</tr>
<tr>
<td><strong>SEPTEMBER 9</strong></td>
<td>Construction Products &amp; Services Expo Marconi Automotive Museum &amp; Foundation for Kids</td>
<td>1302 Industrial Drive, Tustin, California</td>
</tr>
</tbody>
</table>