



The Southern California Section of the Society of Plastics Engineers

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**Local information on resources and education available to the plastics profession**

## Hot Runner Technology for Improving Productivity

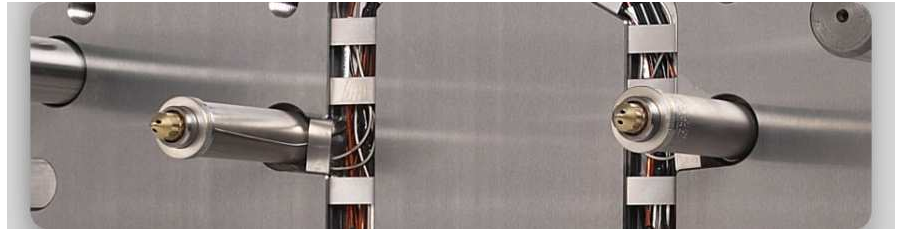
Thursday January 19<sup>th</sup>, 6PM

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Increasing pressures on manufacturers to improve performance while reducing manufacturing cost has generated renewed interest in Hot Runner Technology. Automation and scrap reduction are two key benefits derived from the use of the Hot Runner technology. For years, the technology was confined to a select few high volume captive molders with technical expertise, unlimited funds and personnel to keep up with the maintenance of the system. The advancement in Hot Runner technology has simplified the use of hot runner in variety of applications. Gone are the restrictions on type of material use, number of cavities, type of tooling, and so on. The latest in the Hot Runner Technology include sequential gating, runner balancing using melt flipper technology, hydraulic and pneumatically controlled valve gating, gate design and construction, powder metal components, close cavity spacing, nozzle component design and much more.

So Cal SPE section invites you to listen to the panel of experts discussing and answering your questions involving this fast developing technology.

The program speakers and discussion panel will be:

**Dennis McLaughlin**

**Ricardo Ruelas**

**Carlos Escalante**

**Superior Molds**

**DME Corporation**

**Yudo**

**Register online! [www.socalspe.org](http://www.socalspe.org)**

Event Coordinator:

**Phil Bristow, Alba Enterprises**

909-941-0600

**Note to exhibitors: Tabletops available**

**Advanced registration is requested.** Register online at [www.socalspe.org](http://www.socalspe.org) or complete the registration form and send by email [registration@socalspe.org](mailto:registration@socalspe.org) or fax 909-625-2847



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SPE member	_____ x \$30.00	\$ _____ .00
Non member	_____ x \$45.00	\$ _____ .00
Student	_____ x \$10.00	\$ _____ .00
Exhibitor Tabletop display	\$65.00 Includes dinner	\$ _____ .00
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## President's Message

*We on the board hope you all had a wonderful holiday season.*



As the SPE calendar starts in August, we have already had some very well attended and informative events. Our last event was a plant tour of Niagara Bottling. This was one of the most interesting and fun tours we have ever had. We thank Mark, Erica and Jay for their hospitality and the free drinks.

We are working on the events coming up and hope all of you will be able to attend as many as possible. As you look over the event schedule for this year please notice the two big events that I will continue to promote, our Golf event in June and the Tech Fair in August. These are well attended so sign up early and take advantage of our discounts.

One of our yearly goals as a board and as outlined by SPE National, is to organize an event that focuses on one of the other areas of the industry besides injection molding. Everyone on the board agrees this is a good idea but when we try to arrange the event we typically get little or no response. The reason may be simple. Maybe we do not pick the right topic, maybe we do not advertise it well enough or maybe we do not contact the right person. If you are in an area such as extrusion, blow molding or any other area of the plastics industry besides injection molding please contact myself or someone else on the board to give us your thoughts on how we might improve our chances at scheduling an event of interest.

Since it is a New Year and we are all looking for resolutions, how about attending an SPE event. If you attend our events on a regular basis then resolve to bring a friend.

Another resolution you might consider is joining a mentoring organization. Since I have your attention I thought I might get on my soapbox for a minute. I am a Big Brother with Big Brothers and Big Sisters and would be happy to talk to you about my experience if it will help you make a decision on becoming a mentor. There are many kids out there that could use someone like you to help them face any problems or just have someone to talk to. Most schools and churches have mentoring groups so please consider it for the

upcoming year.  
I am looking forward to seeing as many of you as possible during the year.

*Mike Schubert SoCal Section President  
818-247-6000 ext 2318  
mschubert@glenair.com*

## PRESS RELEASE

*Does your company have news they would like to share?*

Submit your company press release information to:  
[www.socal.spe.new@socalspe.org](mailto:www.socal.spe.new@socalspe.org)

Since this is a section newsletter, information should be relative to our geographic area.

*If we have the available space, we'll print it!*

## Member Testimonial

**Murali Rajagopalan**  
Member since 1990

I have been a SPE member for the last 17 years and strongly believe that it had a great positive impact in my professional growth. During this period, I had the great opportunity to associate with several plastic professionals from the plastic industry as well as from the academia which further enhanced my plastic knowledge.

I urge every plastic professionals who are not the SPE member yet to join the SPE since it brought me several new opportunities like taking a leadership role for the EPSDIV board, being a technical session chair person for the Antec sessions, networking etc.

In short, I am so proud to be a member of the SPE family!

*Submit your reason for being a member  
<http://www.4spe.org/member-testimonials>*

**Western Plastics**

**AUGUST 16, 2012**

Hosted by the Southern California  
Society Of Plastics Engineers

**TRADE FAIR**  
Anaheim, California

### August 16, 2012 - "Save the Date"

### - EXHIBITORS -

### Please join us again at the Western Plastics Trade Fair

The event will be held again at the Phoenix Club in Anaheim, CA

This will be an event with vendors from the injection molding industry as well as a forum for users of plastic parts to meet the molders and mold makers, designers, prototype providers and material sources. We will have several seminars and include at least one on Plastic Part Design, for those who are looking for sources of plastic parts.

We are working with the other professional associations such as ASTM, ACS, IDSA, SAMPE, SME, as well as local Engineering Schools. Our format is designed to draw not only plastic processors and plastic vendors, but to generate an additional interest for product designers, product engineers and OEMs. Attendees will be able to meet the plastic processors of Southern California.

There will be table top and booth space available. The booth space is limited so please register ASAP. The prices will be the same as last year:

\$375 for table tops (2.5' x 6')      \$575 for booth area (8' x 10')

## Register at: [www.socalspe.org/WPTF](http://www.socalspe.org/WPTF)

# SoCal Plastics Manufacturers Events Calendar

## Dinner Meeting - Hot Runner Technology for Improving Productivity

January 19, 2012 - Jagerhaus Restaurant - Anaheim, California

## Workshop - TBA

February 23, 2012 - Hyatt Regency - Irvine, California

## Education Night - Job Fair

March 22, 2012 - Cerritos College - Norwalk, California

## Dinner Meeting - Medical Molding - Update

April 19, 2012 - Jagerhaus Restaurant - Anaheim, California

## Workshop - Bio Plastics, Past - Present - Future

May 17, 2012 - Location - TBA

## 30th Annual Golf Tournament for Plastics Education

June 21, 2012 - Sierra La Verne Country Club - La Verne, California **! NEW LOCATION !**

## Western Plastics Trade Fair [www.socalspe.org/WPTF](http://www.socalspe.org/WPTF)

August 16, 2012 - Phoenix Club - Anaheim, California

For information on the events listed above contact **Mike Schubert 818-247-6000 x2318**  
or visit the **Southern California Section Website [www.socalspe.org](http://www.socalspe.org)**

**SPE has ongoing events across the country and monthly online presentations.**  
For a calendar of these events visit the section website [www.4spe.org](http://www.4spe.org)

### National Events

Organized by National SPE. Industry related conferences and seminars held throughout the United States.  
**National SPE Seminar & Conference PH: 203-775-0471**  
[www.4spe.org](http://www.4spe.org)

### Online Presentations

Simple and convenient ways to gain practical technical and business knowledge about the plastics industry.  
One hour presentations begin at 8:00 AM  
Register online at [www.4spe.org/elearning](http://www.4spe.org/elearning)

## Electrically Actuated Systems - Is this the Future of Actuation Technology?

By Pratyusha Nandy

### INTRODUCTION

In future, it is to be seen whether hot runner systems will continue to use pneumatic or hydraulic actuation to operate valve gates or whether the more precise technology of electronics will take over. Companies are of the opinion that electrically actuated system will evolve to provide the best of both worlds, as it integrates the two very different technologies of hydraulics and pneumatics. While pneumatic and hydraulic actuated systems are useful for only a few applications, the new electrically actuated system is ideal for use in medical and other high-performance applications, and can be applied to virtually any application.

Currently, injection molding machines have become more complex in their design and build. Besides complexity, rising petroleum prices, increasing demand for thin-walled parts, and growing environmental regulations demanding clean and quiet factory floors lead to increased expenses for the molding machine manufacturers. This complexity in injection molding machines, along with in-

creasing competition, require hot runner system manufacturers around the world to look for solutions that can add value to the injection molding machines. These trends promote the hot runners manufacturers to favor the use of an electrically actuated system, which will offer the injection molding industry a diverse set of benefits, such as, oil-free operations, more precise valve stem actuation, closer pitch spacing, higher quality gates, reduced maintenance and operating costs, and improved efficiency and lower noise levels than the existing hydraulic designs.

### Pneumatics Actuated Systems – Limited Due to Reduced Stem Force

While the new electrically actuated valve systems offer a host of benefits, it does not mean that pneumatics will be completely superseded by them in future.

Pneumatics is currently the most widely accepted technology in the medical device industry, as it is considered to be a relatively clean technology that makes use of air. Pneumatics actuated systems can be easily integrated into the production system, to provide reliable actuation. In addition, maintenance of such systems are easy. However, they have limited performance, because air is typically available for up to only 100 psi to operate the gates. This limitation of pneumatics actuated systems may limit the available stem force,

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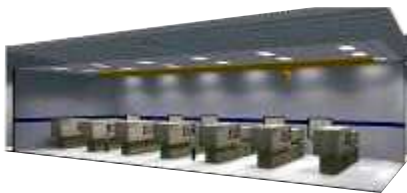


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especially, in the case of small-pitch, individually-stem-driven systems with small piston diameters. To ensure proper operation, special attention must be paid when setting up the air supply hoses and solenoid valves. If they are improperly assembled, for instance, if the air supply hoses are too long or solenoid valves are mounted too far from the hot runner, valve stems can open and close causing slight delays between valve gate pistons; thereby, resulting in inconsistent cavity filling.

### Hydraulic Actuated Systems – Limited Due to Connection Leakage Hydraulic actuated

systems find lesser use than pneumatics actuated systems.

However, it is not a bad news for suppliers of hydraulic actuated systems, because these systems still fulfill certain industry-specific needs, in automotive or large part molding. Typically, hydraulic systems tend to react slightly faster in opening and closing a signal, because oil is not as compressible as air. In addition, hydraulic systems run at a higher valve stem actuation force of around 1,000 psi, which necessitates the use of smaller valve gate cylinders in the tool, for instance, 3 mm diameter compared to 10-12 mm diameter for pneumatics, and the valve pin is quicker to respond and has less chance of sticking.

However, there are various reasons for the slow uptake of hydraulic actuated systems than expected. Hydraulic connection leaks, due to either setup errors or wear of seals, which commonly occur in hydraulic machines, work against its favor. The real cost of hydraulic oil leaks to the industry, which includes makeup fluid, disposal, contaminant ingress, and safety, are being fully considered only of late. Maintenance is also required more frequently to ensure proper operation of hydraulic actuated systems. One significant advantage that pneumatics actuated systems have over hydraulic is the presence of lower pressure during gate contamination (such as metal chips) or a nozzle shutdown. Hydraulic actuated systems may induce damage to valve stems and gates due to the higher force exerted on the gate area.

### Electrically Actuated Systems - The Best Solution

The recent development of electrically actuated system combines the best of both pneumatic and hydraulic hot runner technologies, without their associated disadvantages. In electrically actuated systems, the valve stem

speed can be adjusted and high stem force can be delivered for good gate quality by using an electrical servo motor. Electrical servo motor enables the accurate opening and closing of the valve stems with precision. Over the past several years, electrical servo motor technology has become more affordable. By providing a unique solution for the molding of medical and other high-performance applications, the electrically actuated system satisfies a growing demand to electrify the entire molding cell.

### Benefits of Electrically Actuated Systems

**Clean Technology:** Electric power is converted into mechanical power through servo motor, bearings, and cams. Electric power does not involve any dust, debris, or oil that can potentially contaminate a medical part or a product, whereas, pneumatic air systems that potentially involve dust or debris, and hydraulic systems that use oil that can contaminate a product. This combined with the use of servo motor enable electrically actuated systems to offer significantly extended service life, reduced maintenance and operating costs and improved throughput, because of the elimination of the environmental costs and hazards of dealing with hydraulic seals and O-rings.

**Precise Synchronization:** An electrically actuated valve gate system precisely synchronizes the movement of the valve stems, by coupling them in a plate. This helps to eliminate the lag that is sometimes present in pneumatic valve gates and ensures that all stems are exactly in the same position during the opening and closing of the gate. The way the valve stems are coupled and the use of an electrical actuation system allows a minimum of 18 mm nozzle spacing, making this solution ideal for the molding of small parts. The main advantage is that if a heater on the nozzle is lost or a foreign object blocks the gate, the individual valve stems automatically decouples from the plates at a predetermined force, avoiding damage to the gate or the stem. However, a synchronized system cannot be used when sequential injection is needed, because it would require individually actuated valves.

**Easy Integration:** Both the servo motor and the stem movement are controlled and assembled through an ART (Active Reasoning Technology) controller, temperature, and process controller. An integrated module offers an easy setup of temperature and servo motor from one screen. Every shot can be consistently documented through

the electrical signal. This integrated setup enables molders to monitor or document key injection parameters to easily add stem positioning to existing parameters, such as injection time or cavity pressure further benefit molders by reducing clutter around the injection-molding machine.

**Greater Efficiency:** Just like any other traditional system, the electrically actuated valve systems can be set up easily, and most importantly, the nonexistence of air or hydraulic lines reduces hose requirements around the machine. In addition, the stem actuation unit can be separated from the hot runner with ease, allowing for greater access to the valve stems and cam action components, with the mold remaining in the press for both stem removal and decoupling, which provides best energy efficiency.

**Better Safety and More Precise Control:** The electrical servo motor is used to open and close every valve stem with precision, at exactly the same time and speed, as they are connected to each other, with absolutely no difference in valve stem opening and closing. This results in increased consistency for both shot-to-shot and cavity-to-cavity filling and also provides improved repeatability of injection molded parts, regardless of whether it is applied to a standard or all electric injection press. Besides consistency, the servo motor torque can be adjusted, allowing the stem's closing force to be fine-tuned between 150 and 300 pounds, and, more importantly, this fine-tuning ability also provides additional protection from gate damage in some applications.

### Future of Electrically Actuated Systems

As superior quality, improved performance, simplified maintenance and increased flexibility become the increasingly demanding requirements for hot runners, the electrical actuated system, which can meet all these requirements, has a competitive edge over the traditional pneumatics and hydraulic technologies, both now and the future. The electrical actuated system is not only clean and fast, but its performance is also easy to document. Its integrated controller offers an easy setup of both the electrical servo motor and hot runner heaters from just one interface. This integration will further benefit manufacturers by reducing maintenance, improving efficiency, and, most importantly, lowering operating costs, compared to traditional pneumatics and hydraulic actuated systems.

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## Recycling Connections



<http://www.calrecycle.ca.gov/CalMAX/>

CalRecycle's CalMAX portal connects businesses, organizations, manufacturers, schools, and individuals with the most effective online resources for exchanging materials. One business' trash is another business' treasure. By reusing materials, we conserve energy, resources, and landfill space, while reducing disposal, green house gas emissions, and purchasing costs.

Please use one or more of the resources listed through the website to find materials. Thank you for your continuing commitment to reuse!

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### Connecting Recycled Plastics Buyers and Suppliers

This site's purpose is to connect suppliers and buyers of all types of scrap plastic (from bales to post consumer resin). It's supported by the plastics industry and intended for use by the recycling industry in the United States and Canada. This site is not intended for the general public or household plastics.

[www.plasticsmarket.org](http://www.plasticsmarket.org)

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## Plastics Engineering Technology Certificate Program

### Plastics Theory and Practice **NEW Saturday Schedule**

*Plastics Theory and Practice* is part of an ongoing certificate program offered by the College of the Extended University at Cal Poly Pomona. The four-course program provides practical instruction applicable to materials, processing, product design and tooling.

#### Why should you attend?

This short course is designed for professionals entering the field of plastics desiring to acquire the basic knowledge of plastics industry in general. **Plastics Theory and Practice** is also suitable for individuals in plastics sales, purchasing, marketing and management positions who do not possess a technical, engineering or scientific background. This course should also be valuable for technical, scientific and engineering personnel, either entering the field of plastics or interested in broadening their knowledge of materials and processing techniques. The objective of the course is to expose participants to the basics and point them in right direction so that they can obtain more information through websites, books and periodicals to further enhance their career. The PowerPoint presentation used in the course is descriptive and practical and presented in simple, easy to understand language without being extremely detailed or technical. It is widely illustrated with animations, diagrams and photographs.

#### Who should attend?

Sales and marketing personnel, engineers, product and tool designers, purchasing managers, plant managers, tool makers, molding supervisors, quality assurance personnel and anyone who wants to acquire basic knowledge of plastics in general and/or take a refresher course on the subject.

#### Content

Polymer structure properties and applications  
 Processing techniques  
 Plastics terminology  
 Plastics tooling, Plastics processes  
 Product design basics  
 Assembly and secondary operations  
 Material selection process  
 Decorating and printing  
 Testing and failure analysis  
 Interpreting data sheets  
 Plastics industry standards  
 Plastics identification  
 Plastics recycling



In addition, students will receive a variety of useful handouts showing *How and Where* to get more detailed information on a variety of plastics-related topics.

#### Comments Provided by Students

- Great course, very instructional...love the PowerPoint notes
- The instructor uses examples that are relevant to my industry/field
- The overall explanation of the basics of Plastics was very clear and concise, explained in plain English without having to use big and sophisticated words to explain theory or function
- The course's major strength was instructor's ability to relate to real life experience
- Very Practical – I highly recommend to anyone new to plastics industry
- Hand-outs are great, I refer to them on regular basis

### Registration by Telephone 909-869-2288

Dates	Saturdays, February 4 & 11, 2012
Course Time	8:00 a.m.-5:00 p.m.
Location	Cal Poly Pomona, Bldg 86A
Fee	\$325
Instructor	<b>Vishu H. Shah</b> 714-674-1981
Course Code	1PLA PRAC-WT

**Saturday Schedule**

## New Health Insurance Program Through SPE

SPE is pleased to announce its sponsorship of a new health insurance program. Offering major medical, optional disability, dental and vision coverage, this program is designed to meet the varying needs of SPE members. The key to finding affordable group and individual health insurance is to know exactly what you need and what you can afford. By knowing what you need, you can choose the right insurance plan that suits you and your employees best without costing too much.

However, researching health insurance is very time-consuming and can be very frustrating unless you are extremely savvy in the healthcare arena. Therefore, SPE has partnered with Mass Marketing Insurance Consultants, Inc. (MMIC) to help you design a healthcare program to fit your needs, your employees' needs, and your budget.

SPE members can obtain a **free no-obligation quote** through Mass Marketing Insurance Consultants, Inc. (MMIC) from the following website:

[mmicinsurance.com/SPE](http://mmicinsurance.com/SPE)

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# Society of Plastics Engineers Membership Application

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## European Member Bureau

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**Email:** *used for society business only* \_\_\_\_\_

**Home Address:**

**address:** \_\_\_\_\_

**city:** \_\_\_\_\_ **state:** \_\_\_\_\_

**zip:** \_\_\_\_\_ **country:** \_\_\_\_\_

**Home Phone:** \_\_\_\_\_

Preferred Mailing Address:  Home  Business

**Gender:**  Male  Female

**Birth Date:** (mm/dd/yyyy) \_\_\_\_\_

**Demographics**

**Job Function** (*choose only one*)

<input type="checkbox"/> Consulting	<input type="checkbox"/> Purchasing
<input type="checkbox"/> Design	<input type="checkbox"/> Quality Control
<input type="checkbox"/> Education (Faculty)	<input type="checkbox"/> R & D
<input type="checkbox"/> Engineer	<input type="checkbox"/> Retired
<input type="checkbox"/> General Management	<input type="checkbox"/> Self-Employed
<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Student
<input type="checkbox"/> Marketing/Sales	<input type="checkbox"/> Tech Support
<input type="checkbox"/> Other	

**Materials** (*choose all that apply*)

<input type="checkbox"/> Composites	<input type="checkbox"/> Polyolefins
<input type="checkbox"/> Film	<input type="checkbox"/> Polystyrene
<input type="checkbox"/> General Interest	<input type="checkbox"/> TPEs
<input type="checkbox"/> Nylon	<input type="checkbox"/> Thermoset
<input type="checkbox"/> PET	<input type="checkbox"/> Vinyls
<input type="checkbox"/> Foam/Thermoplastics	<input type="checkbox"/> No Interest

**Process** (*choose all that apply*)

<input type="checkbox"/> Blow Molding	<input type="checkbox"/> Injection Molding
<input type="checkbox"/> Compression	<input type="checkbox"/> Mold Making
<input type="checkbox"/> Compounding	<input type="checkbox"/> Product Design
<input type="checkbox"/> Engineering Properties	<input type="checkbox"/> Rotational Molding
<input type="checkbox"/> Extrusion	<input type="checkbox"/> Thermoforming
<input type="checkbox"/> Fabrication	<input type="checkbox"/> General Interest
<input type="checkbox"/> Foam	<input type="checkbox"/> No Interest

The SPE Online Membership Directory is included with membership. Your information will automatically be included.

- Exclude my email from the Online Member Directory
- Exclude all my information from the Online Member Directory
- Exclude my address from 3rd party mailings

### Payment Information

<b>New Member 1 Year</b>	<b>New Member 2 Years *</b>	<b>Student Member</b>
<input type="checkbox"/> US \$144.00	<input type="checkbox"/> US \$261.00	<input type="checkbox"/> US \$31.00

**My Primary Division is** (choose from below)

**Additional Divisions are available for a fee. Check below to select Additional Divisions.**

<input type="checkbox"/> Additives & Color Europe (D45)	<input type="checkbox"/> Medical Plastics (D36)
<input type="checkbox"/> Automotive (D31)	<input type="checkbox"/> Mold Making & Mold Design (D35)
<input type="checkbox"/> Blow Molding (D30)	<input type="checkbox"/> Plastics Environmental (D40)
<input type="checkbox"/> Color & Appearance (D21)	<input type="checkbox"/> Polymer Analysis (D33)
<input type="checkbox"/> Composites (D39)	<input type="checkbox"/> Polymer Modifiers & Additives (D38)
<input type="checkbox"/> Decorating & Assembly (D34)	<input type="checkbox"/> Product Design & Development (D41)
<input type="checkbox"/> Electrical & Electronic (D24)	<input type="checkbox"/> Rotational Molding (D42)
<input type="checkbox"/> Engineering Properties & Structure (D26)	<input type="checkbox"/> Thermoforming (D25)
<input type="checkbox"/> European Medical Polymers (D46)	<input type="checkbox"/> Thermoforming, European (D43)
<input type="checkbox"/> Extrusion (D22)	<input type="checkbox"/> Thermoplastic Materials & Foams (D29)
<input type="checkbox"/> Flexible Packaging (D44)	<input type="checkbox"/> Thermoset (D28)
<input type="checkbox"/> Injection Molding (D23)	<input type="checkbox"/> Vinyl Plastics (D27)
<input type="checkbox"/> Marketing & Management (D37)	

**Students must supply graduation date:** \_\_\_\_\_

**Membership Amount** \_\_\_\_\_

**Primary Division** FREE

**Additional Division(s)**  
costs for each Additional Division

	<b>1yr.</b>	<b>2 yrs.</b>	_____
US	\$10.00	\$20.00	_____

**TOTAL** \_\_\_\_\_

CHECK  VISA  AMEX  MASTERCARD

card number \_\_\_\_\_

expiration date (mm/yyyy) \_\_\_\_\_

**PAYMENT MUST ACCOMPANY APPLICATION**  
**No Purchase Orders Accepted**

Checks must be drawn on US or Canadian banks in US or Canadian funds.

Dues include a 1-year subscription to *Plastics Engineering* magazine—\$38.00 value (non-deductible).  
SPE membership is valid for twelve months from the month your application is processed.  
\*extra savings.

By signing below I agree to be governed by the Bylaws of the Society and to promote the objectives of the Society. I certify that the statements made in the application are correct and I authorize SPE and its affiliates to use my phone, fax, address and email to contact me.

signature \_\_\_\_\_ date \_\_\_\_\_

recommended by member (optional) \_\_\_\_\_ Id # \_\_\_\_\_

webnew

**The SoCal SPE board is actively seeking participation from a person with sales and marketing experience. If interested contact Mike Schubert or any board member.**

SoCal SPE leadership	Phone	Email
President: Mike Schubert, Glenair	818-247-6000 ext 2318	mschubert@glenair.com
President Elect		
Vice President: Tuan Dao, Polymer Engineering Group	714-692-9634	tuandao@msn.com
Int'l Councilor: Doreen Beghtol, Team Losi/Horizon Hobby	909-390-9595	dbeghtol@horizonhobby.com
Administrative & Treasurer: Vishu Shah, Consultek	714-674-1981	vishu@consultekusa.com
Secretary: Kathi Miller	909-597-7928	kathimiller28@yahoo.com
Membership: Doreen Beghtol, Team Losi/Horizon Hobby	909-390-9595	dbeghtol@horizonhobby.com
Newsletter/Web Service: Tom Tudor, Hi-TECH INSTRUMENTS	909-647-5515	news@socalspe.org
<b>Board support directors</b>		
Past President: Kerry Kanbara Premier Industries	866-966-0302	kerry@piustech.com
Past President: John Szary, Pinnacle Group	714-974-3999	jszary@aol.com
Past President: Chris Mitchell, C. Brewer	951-582-9565	chrism@socalspe.org
Past President: Clarence Smith, Team Losi/Horizon Hobby	909-390-9595	socalspe@aol.com
Director: Suhas Kulkarni, FIMMTECH, Inc.	760-525-9053	suhas@fimmtech.com
Director: Viktor Okhusen, CalPoly Pomona	909-869-2698	vfokhusen@csupomona.edu
Director: Phil Bristow, ALBA Enterprises	909-941-0600	Phil.b@albaent.com
Director: Rick Hays, E.T. Horn	714-523-8050	rhays@ethorn.com



**Online Buyers Guide & Directory**

**A resource for Southern California's Plastic Manufacturers**

*Don't forget to add a shortcut on your desktop to the SoCal Buyer's Guide*

[www.plasticsmfg.socalspe.org](http://www.plasticsmfg.socalspe.org)



**SoCal SPE Governance**

The section operates by an almost all volunteer Board of Directors comprised of plastics professionals. Together we organize functions to keep you informed of the latest technologies in the plastics industry as well as bringing awareness of plastics to local communities.

If you have an interest in a great networking opportunity, become part of our sections B.O.D. Contact Mike Schubert, SoCal Section President 818-247-6000 ext 2318 [mschubert@glenair.com](mailto:mschubert@glenair.com). Financial reports and board meeting minutes are available upon request

**To view the complete list of section board members visit the section website [www.socalspe.org](http://www.socalspe.org)**

[www.plasticsmfg.socalspe.org](http://www.plasticsmfg.socalspe.org)

[www.socalspe.org](http://www.socalspe.org)

909-647-5515 [news@socalspe.org](mailto:news@socalspe.org)  
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*The SPE Press*

