



So Cal SPE Workshop Series 2018

Molding – Past, present & Future

**FIMMTECH INNOVATION & TRAINING
CENTER, Carlsbad, CA
Thursday May 31, 2018**



John Wesley Hyatt filed the patent for the first injection molding machine in 1872. Reciprocating screw was developed in 1956. Since then, there have been many advances in molding technology. However, the progress in terms of molding shop owners and technicians mind set has been painfully slow to changes. Many molders are still mired in the old habits and outdated molding practices.

The day long workshop will address the key issues facing the molders today and growth opportunities. Efficiency, improvements and profitability cannot be achieved without spending lots of money is a misconception. Maximum productivity molding with minimum expenditure will be discussed. Recognizing the fact that it is the people on the floor that make or break the operation, importance of properly training the technicians and machine operators is explored.

None of the sophisticated molding machines, skills or technology can solve molding issues stemming from the inadequate part design. For example, sink and void issues due to uneven and thick walls, non-fills and burning created by deep ribs without venting considerations cannot be simply solved by twisting knobs or punching new numbers. Learn how to solve the problems related to the part design.

Optimizing the process and making the process robust is the key to trouble free molding. How to optimize the process by creating process window and how to conduct simple DOE will be discussed.

The latest technologies from the largest plastics industry technology showcase will be highlighted. What is the future of molding? What is Industry 4.0 all about, what are Smart Factories and how molders can stay abreast, take advantage and ride the new wave to profitability will be discussed.

Date: Thursday, May 31st, 2018

Time: 9:00 registration 9:30 Workshop 1:00 Live demonstrations 4:15 Adjourn

Location: FIMMTECH 5900 Sealion Place, Carlsbad, CA 92010

Cost: Cost: SPE Member: \$100 Non-Member: \$ 130 (Join SPE today and save \$30)
(Includes Continental Breakfast and afternoon Lunch)

Register On line at www.socalspe.org

9:30 to 10:30 Vishu Shah **Breaking the bad habits – A review of conventional molding practices and how to break out of the mold inhibiting the molder’s growth.**

10:45 to 12:00 Tuan Dao **How a poor part design affect molder’s profitability – Simple, low cost solutions.**

12 noon to 1:30 **Lunch and demonstrations**

1:30 to 3:00 Suhas Kulkarni **Improving the Cpk: What is Cpk (Process capability), Why is it Important and How to Improve it**

3:15 to 4:15 Vishu Shah **Future trends: Equipment, Molding technologies, Automation, Industry 4.0/Smart Factories The latest from NPE.**

SPEAKERS

Tuan M. Dao, B.Ch.E., MSME, is a Senior Consultant at the Engineering Plastics Consulting Group. He was formerly with DuPont Company and has 25+ years’ experience in Plastic Engineering with applications in various industries such as automotive, medical, electrical/electronics, irrigation, and consumer. His expertise includes product design, Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), mold design, runnerless technology, and optimum molding. He has been teaching Advanced Plastic Product Design classes at UCSD for past five years. He is a senior member, past president of So. Cal. SPE section and currently serving on board as a technical program director.

Vishu H. Shah is President of Consultek Consulting Group, a consulting firm specializing in Business Growth strategic planning and new product/Technology strategy development. His 35 years of extensive practical experience in plastics Industry includes positions as president and cofounder of Performance Engineered Products – a custom injection molder, Senior Plastics Engineer of Rain Bird Corporation and NIBCO Inc. His areas of expertise include product design, processing, automation, materials, rapid prototyping, tooling, failure analysis and testing. He is the author of Handbook of Plastics Testing and Failure Analysis and has taught various plastics related subjects throughout his career. Currently, he is teaching classes covering, Plastics Theory and Practice, Scientific Molding, Product Design and Tooling at CAL POLY, Pomona. An active, involved professional, he is a senior member, past president of So. Cal. SPE section, SPE Honored Service Member and a board member of SPI Western Moldmakers Division. Vishu is a graduate of UMass Lowell where he received B.S. and M.S. degree in Plastics Engineering. He has worked extensively with legal community as expert witness and provided technical support with litigation.

Suhas Kulkarni is the President of FIMMTECH, a consulting firm that specializes in services related to injection molding. He earned his Master’s in Plastics Engineering from the University of Massachusetts, Lowell and a Bachelors in Polymer Engineering from the University of Poona, India. He has 22 years of experience as a process engineer. His main area of expertise is Scientific Processing for Injection Molding. He conducts regular training seminars in Injection Molding and has developed a custom software called Nautilus, that aids the complete process development routine to production release. He is a contract faculty at UMASS Lowell and has given numerous presentations and written several articles. He is also an author of the book ‘Robust Process Development and Scientific Molding’ published by Hanser Publications.