Process Modeling for Metal Forming Die Stress Analysis

Industry leaders have learned that traditional methods of designing and troubleshooting tools and dies are not competitive. The cost and time associated with die failure is not a "cost of doing business". Forging and heading tool and die costs typically range from 5 - 15% of total sales when all of the cost elements are included. Improvements made in tooling performance go straight to the bottom line!

Simulation software is used to help "connect the dots" between the science of tooling failure and the practical issues on the shop floor. Die life and failures are directly related to stresses. This workshop provides information on the fundamentals of stress, setting up computer models and interpreting the results. Information provided can help novice engineers or experienced designers improve tool life before the dies are cut!

The 18th offering of this workshop is being offered at SFTC in Columbus, Ohio, with Professor Joe Domblesky and John Walters as the instructors. The fundamentals and application to industrial problems will be emphasized. Each attendee will have an opportunity to reinforce the concepts by reviewing specific cases using DEFORM^{**}. A wide range of industrial



examples involving significant life improvement and cost savings will be presented.

Itinerary: - overview - industrial examples - stress and strain - elastic & plastic deformation - analysis methods - die failure fundamentals - interobject interactions - die wear - thermal fundamentals & applications - interference theory & applications - troubleshooting die problems - material selection - practical analysis considerations -

Logistics: - August 20 & 21, 2014 - Scientific Forming Technologies Corp. - Columbus, OH - 8:30 a.m. to 4:30 p.m. -- \$ 875 / person - enrollment limited to first 20 applicants - lunch will be provided -

For registration information, contact: Nancy Welling at SFTC (614) 451-8330 X-100 nwelling@defor ~ for technical information on course conter John Walters at SFTC Professor Joseph Domb (614) 451-8323 jwalters@deform.com (414) 288-7832	m.com Scientific Forming Forming It ~ Iesky Ph. D. at Marquette Univ. joe.domblesky@marquette.edu Corporation
The fee of \$875 / person with payment received prior to the workshop. The course fee is \$950 for payments received after the workshop extends of \$250 memory and it is explicitly as the product of \$250 memory and it is explicitly as the product of \$250 memory and it is explicitly as the product of \$250 memory and it is explicitly as the product of \$250 memory and it is explicitly as the product of \$250 memory and \$250 memory	Registration Form
for 2 or more prepaid attendees from the same company. ~ Attendees are responsible for all travel expenses.	Company Name:
	Attendee Name:
~ 100% refund will be made for cancellations two weeks before	Title / Position:
the workshop. A \$100 administrative fee will be deducted for cancellations before the first day. No shows or cancellations	
afterwards are responsible for the full registration fee.	Address:
~ SFTC reserves the right to cancel or reschedule this work-	
shop without any penalty for travel or lodging cost penalties	
as a result of rescheduling/cancellation. In this event, you	Phone: () X Fax: ()
 Information on available lodging near the office will be 	e-mail:
included with the registration confirmation.	
	[] Check Enclosed Iotal Amount Enclosed: \$
Mail or fax registration to: Nancy Welling	[] Bill Company P.O. Number:
Scientific Forming Technologies Corporation	
Tel: (614) 451-8330 X-100 Fax: (614) 451-8325	confirmation - subject to nominal administrative fee -