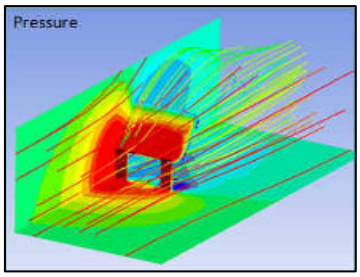
ASME PROFESSIONAL DEVELOPMENT SEMINAR

"FEA & CFD Simulations for the Solar Industry"

Metin Ozen, President and CEO, Ozen Engineering Inc



Location: Santa Clara University
Mechanical Engineering Bldg #402, EC 602, 2nd Floor.

Saturday, November 7, 2009

9 AM – 4 PM
ASME or SVEC member: $50 per person
Non-Member: $69 per person
Student, Unemployed, or Retired Member: $30

OZEN ENGINEERING

http://www.ozeninc.com

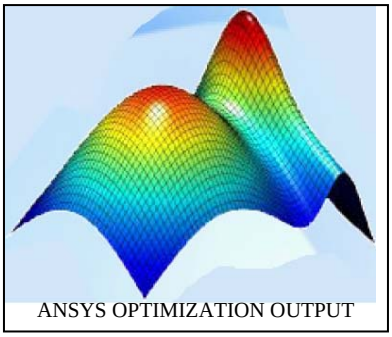
ATTEND IN-PERSON or BY WEBINAR

ABSTRACT

The Solar industry faces many technological challenges. In the center stage of making Solar Energy achieve its promise is the use of Finite Element Analysis (FEA) and Computational Flow Dynamics (CFD) Simulations. Come and see the applications of FEA and CFD to the Solar Industry that involve thermal, structural, thermal-stress, solder joint reliability, electrical, and fluid structure interactions. This is an applications oriented class.

YOU WILL LEARN…

- *Use of Finite Element Analysis for thermal analysis*
- *Principles and applications of design optimization for Solar Applications*
- *Use of Finite Element Analysis for addressing structural issues in Solar*
- *Analysis techniques for interactions including thermal-stress*
- *Simulations for modeling & understanding PV electrical behavior in Solar*
- *Analysis of fluid-structure interactions*
- *Use of Computational Flow Dynamics in Solar Applications*
- *This class will be focused on applications developed in ANSYS*


ANSYS OPTIMIZATION OUTPUT

WHO SHOULD ATTEND:

Professionals responsible for Solar Design Optimization, Solar Design Engineers, Clean Tech Mechanical Engineers, Electrical Engineers, Clean Tech Consultants, Manufacturing Engineers, Users of Finite Element or Computational Flow Dynamics Software, Mechanical Engineering Supervisors, Unemployed Engineers and Technical Engineering Supervisors & Managers.

REGISTER & PAY NOW

- *Acteva (Credit Card Service)* ✂ *http://www.acteva.com/go/asmescvs*
- Mail-in form with Check/ Money Order- must be received on the day prior to seminar start

CONTACT REGISTRAR

- Email Registrar: sbelligundu@gmail.com
- Call Registrar, Sunil Belligundu (408) 768-2391

Send payment to: ASME SCVS, P.O. Box 611865, San Jose, CA 95161-1865

Payment must be received prior to the seminar and will not be accepted at the door.

Simulations for the Solar Industry

Name_____Company_____

Address_____ Title_____

City_____ State _____ ZIP _____ Phone_____

Email_____ Engineering Society _____

☐ Attend in Person ☐ Attend online

I can provide proof of membership (Circle one) Yes No; ☐ I eat vegetarian when it is provided

ASME PROFESSIONAL DEVELOPMENT SEMINAR
Saturday November 07, 2009

"FEA and CFD Simulations for the Solar Industry"

Dr. Metin Ozen, Distinguished Speaker

Ozen Engineering Inc.* - *Principal

Dr. Metin Ozen is currently operating a high technology consulting firm, Ozen Engineering, performing advanced multi-physics Finite Element Analysis for his clients and is an ANSYS Channel Partner. He is a leader in Silicon Valley and the Nation in applying simulation technology, finite element analysis, and computational flow dynamics to engineering design.

Dr. Metin Ozen received a BS Mechanical Engineering and MS Applied Mechanics degrees from Lehigh University and a PhD from University of Connecticut in Applied Mechanics.

Metin brings with him 27 years of experience in Applied Mechanics. He has provided key technical support, training, and consulting work for ANSYS and CFDRC software in the Bay area. He has taught classes throughout the country on topics such as MEMS, Fracture Mechanics and Fatigue, Ball Grid Arrays (BGA's), Heat Transfer, Dynamics, CFD using Flotran, Electromagnetics, and Finite Element Methods. In 2001-2002, Dr. Ozen served as the Chair of the Silicon Valley chapter of ASME. He is an ASME Fellow, honoring his contributions to Mechanical Engineering. Ozen Engineering is a long-term sponsor of the Santa Clara Valley Section.