



August 31 - September 4, 2008
 The Westin Resort & Spa
 Puerto Vallarta, Mexico
www.mancef-coms2008.org

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[About MANCEF](#)
[COMS 2008](#)

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Welcome

Welcome to the third edition of the e-newsletter for [COMS2008](#), the 13th annual conference on Commercialization of Micro and Nano Systems. This year COMS will be held in beautiful Puerto Vallarta, Mexico, August 31 - September 4, 2008. Visit www.mancef-coms2008.org for the latest information on speakers, sponsors, and events.

COMS2008 is only weeks away! Have you registered and made your hotel reservation? Don't delay, rooms are going quickly.

Register today at <http://mancef-coms2008.org/>

The program has been updated; please visit <http://mancef-coms2008.org/program.html> for the latest information.

COMS2008 Optional Activities:

Pre Conference Workshop: Enabling Technologies for MEMS Manufacturing

Steven Dwyer, Eric Pabo, Thorsten Matthias

[EV Group Inc.](#)

Sunday August 31st, 9:00 am - 1:00 pm

The changing environment for MEMS manufacturing requires new and innovative process and equipment solutions. Time-to-market, scalability, modularity and of course cost are the key drivers for the adoption of MEMS technologies in consumer electronics and commodity products. In this workshop recent developments in wafer bonding, wafer level packaging and 3D integration of MEMS will be discussed.

Wafer bonding is a key enabling technology for many MEMS devices like accelerometers or gyros. New methods like plasma activated fusion bonding and metal thermo-compression bonding will be analyzed and compared to the established methods like glass frit or anodic wafer bonding. New requirements for wafer bonding include high vacuum capability and 3D stacking of devices. Wafer-level packaging (WLP) is key to reduce the cost for MEMS manufacturing. WLP concepts based on thick resist lithography and wafer bonding will be presented with a higher emphasis on transparent packages for optical devices. Finally enabling wafer processing solutions for upcoming technologies like thin wafer processing, through silicon vias (TSV) and 3D integration of MEMS with RF, logic or memory will be presented.

- Wafer bonding
 - o Overview of the different wafer bonding methods
 - o Traditional (Glass frit, anodic) vs. new (Al-Al, Cu-Cu) bonding schemes
 - o High vacuum wafer bonding



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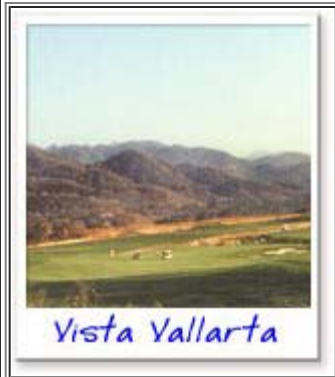
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- o Cost-of-ownership study
- o High volume MEMS manufacturing
- Lithography
- o Thick resist lithography
- o WLP with photo-imageable polymers
- Wafer-level packaging (WLP)
- o Form factor reduction
- o Low cost packages
- o Transparent packages for optical devices
- Upcoming technologies
- o Thin MEMS
- o Through Silicon Vias (TSV)
- o 3D integration

Register to attend this workshop at <http://mancef-coms2008.org/reg.html>

The annual COMS golf tournament



Don't miss this highly anticipated event! Check off the golf tournament option when you [register](#).

The Vista Vallarta Club de Golf encompasses two 18-hole, par 72 championship golf courses: the first is a Signature Golf Course Design by golf legend Jack Nicklaus, and the neighboring course is a Signature Course Design by golf great Tom Weiskopf. Opened in April, 2001, the Jack Nicklaus Signature Golf Course is located on the property's highest elevation, offering breathtaking views of Puerto Vallarta, the Marina and the Banderas Bay, arguably the best sheltered marina in Mexico. Grassy hillsides, dense forest of palm, giant ficus trees and natural creeks provide the setting for this worldclass course.

The **COMS2008 Award dinner** will be another wonderful evening of delicious food, networking and entertainment. Join us for:

- Horse Show
- Traditional Dancing & Music
- Pinata Breaking


Conference Supporters:


Fireworks

- Roping Acrobatics Show

About COMS

COMS (**C**ommercialization **O**f **M**icro-**N**ano **S**ystems) is not just about the science (like so many other Micro/Nano conferences) but how to harness research and theory and turn them into commercial products. It's a hands on, practical meeting that will assist in bringing these technologies to market. COMS addresses the commercialization obstacles encountered in research, technology transfer, manufacturing processes, facilities, infrastructure, investment, applications and markets, as well as covering regulatory issues, social implications, education and workforce development. COMS is a networking showcase of insight, knowledge, experience and inspiration! <http://www.mancef-coms2008.org/>



We look forward to seeing you In Puerto Vallarta!

The COMS2008 joint organizing committee

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