



Science and Technology
of Materials, Interfaces, and Processing

Southern California Chapter

Advances in Vacuum Chamber Technology

Ken Harrison (President & CEO)
Thomas Dobler (Sales Manager)
GNB Corporation

Wednesday, January 25, 2012
6:30 p.m. at Torrance Holiday Inn

Dinner & Presentation Sponsored by
The Southern California Chapter of the
AVS

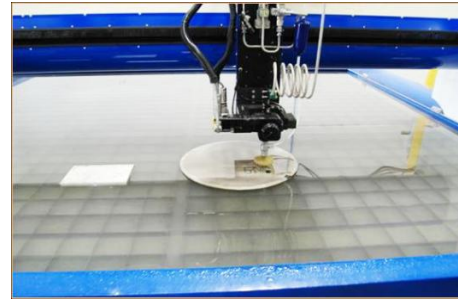
Synopsis

New vacuum chamber technologies are enabling significant improvements in performance and cost. These have a payoff for everyone who uses, specifies, designs, or fabricates chambers. GNB, a leading manufacturer of chambers, will discuss their experience with the most critical technologies, which include:

- Integration of valves, plumbing, and seals into chamber designs to improve performance and reduce system cost.
- Finite element model interpretation methods to reduce expensive and unnecessary design margins while achieving ASME standards.
- Welding technologies such as water-jet preparation machining, TIG and dual shield MIG, and vibratory stress relief to minimize the cost of achieving close tolerances and process compatibility.
- Surface preparation methods for achieving the best possible cleanliness
- UHV all-metal seals for large flanges made from common, inexpensive materials



Space Simulation



5 Axis Water-Jet Weld Prep



Vacuum chamber
with Integrated
Sealing Mechanism



CNC Milling of
Large Workpiece



Our Speakers

Ken Harrison, President & CEO, GNB Corporation since 2005. He has also held mechanical engineering and management positions at SMW Systems and Gulton Stratham. He has a BSME degree from LeTourneau University and an MBA from Pepperdine University.

Thomas Dobler, Sales Manager, GNB Corporation. Prior to this, he held mechanical engineering and product management positions with a large European vacuum valve manufacturer. Throughout his career, Mr. Dobler has collaborated with vacuum users worldwide to meet a great diversity of requirements. He has BSME and MBA degrees from the University of Gloucestershire, UK.

Meeting Details

Date: Wednesday, January 25, 2012

Location: Holiday Inn, 19800 S. Vermont Street, Torrance, Ca. 90502
Located ½ mile south of the 405 Fwy. Phone: 310-781-9100

Schedule: 6:30 Networking (drinks available at cocktail lounge in hotel lobby)
(PM) 7:15 Dinner
8:00 Presentation
8:45 Questions & Answers
9:00 End

Cost: \$30 per person, \$15 students. *Advance payment is required.*

Menu: Grilled Boneless Breast of Chicken Topped with Pesto Sauce. Served with Buttered Pasta Noodles & Fresh Vegetables du Chef. Dinner includes a Small Mixed Green Salad, Coffee or Tea, and Lemon Cake for Dessert. Vegetarian option available.

For additional information, contact us at: info@sccavs.org

Reservations: Send a check payable to SCCAVS along with Registration Form by the *deadline of January 19, 2012.*

Registration Form

Deadline: January 19, 2012. Payment by check only (No Credit Cards or POs accepted).

Send to: SCCAVS, 1365 Delaware St., Unit 101, Huntington Beach, CA 92648

For additional information, contact: info@sccavs.org

Check enclosed, payable to SCCAVS (\$30 per person, \$15 students)

Grilled Chicken Pesto Vegetarian Option (Chef's Choice)

Name: _____

Company/Org _____

Address, Mail Stop _____

City _____ State _____ Zip _____

Phone: _____

Email: _____