Conejo Valley Woodworkers' Association

Redwood Intermediate School 233 W. Gainesboro Rd. Thousand Oaks, CA
P.O. Box 1838, Thousand Oaks, CA 91358-0838

THE BLADERUNNER

www.cvwa.org DECEMBER 2001 Number 69

NOVEMBER MEETING

Fifty-one people attended the November meeting. Because of the complexity and length of the presentation, the summary of the program is moved to the end of the newsletter for this issue.

NOVEMBER VISITORS

We welcomed the following visitors at the November meeting: **Ed and Lynn Shuttleworth**, **Roman Przybyla**, and brothers **Robert and George Blair**. We hope to see you regularly at the meetings.

NOVEMBER NEW MEMBERS

We also take this opportunity to welcome **Lowanna S. Brinkley** to our membership.

NOVEMBER PRIZE WINNERS

Jorgenson Miter Saw	**Don Jacobson**
Ryobi 6" bench grinder	**Bob Holmquist**
Skill Orbital Jigsaw	**Dan Smith**

DECEMBER PROGRAM

The December meeting is always the culmination of the toy projects for the year. Bring in your toys and staff will see that they get distributed to the needy in Ventura County.
It is also the major show and tell meeting of the year. Members are encouraged to bring in the projects they have been working on. If you have one that went wrong, bring it in anyway. Perhaps someone can help to fix it. Some newer members hesitate to bring their work because it may appear amateurish. We remind you that this is not a juried show and no one will be judged on his/her craftsmanship.

DECEMBER PRIZES

Black & Decker 20 piece drill set
16.8 volt cordless drill
Black & Decker 3 ¼" Power Planer
Black and Decker 3 3/8" cordless circular saw

DECEMBER TRIP

The December trip is the potluck at **Steven Case-Pall's** house. He will provide the beverages, tableware and chips. Just bring food for 6. **Time**: Saturday, December 1, 1:00 PM. **Place**: 11550 Charisma Court, Camarillo. Take Santa Rose Rd. to Penelope to Charisma. His phone number is (805) 491-3660.

JANUARY PROGRAM

Some of the members have been making furniture that needs to be fabric covered. The BOD has arranged to have a professional upholsterer/instructor at the January meeting to demonstrate some basics of the craft. If you don't know how to cover that ottoman, this is the meeting for you.

ANNOUNCEMENTS THANKS AND OTHER STUFF

Condolences

The Board of Directors and the membership wish to express its condolences to **Gene West** and his wife on the recent loss of their son, Tom.

Seminar

At its last meeting, the Board of Directors voted to sponsor 2 to 4 seminars a year for the members. Please contact one of the board members if you have an idea for a program.

A Message From The President

Well, it's finally done. Yes, the final version of a new CVWA'S Constitution and Bylaws is now a reality and will be available to all who would like to have a copy sometime in the near future.
I would like to thank everyone who helped me make this a viable, living document, that should serve, in it's present or potentially future modified form(s), administrations of the CVWA for years to come. What we now have, has evolved from using the previous Bylaws, accepted but unincorporated amendments of the past, a starting rough draft and many hours of review by the Past Presidents with subsequent revisions. It was then submitted to your current Board of Directors for their comments, changes and acceptance.
John Tarpley's contribution of content and role as facilitator in this project cannot be overstated. When the initial rough draft for a new CVWA Constitution and Bylaws was submitted, as part of a proposed project to the newly formed Past Presidents Advisory Panel last February, John immediately volunteered to head the project. We have come a long way in the past nine months and I am truly convinced that without John's parliamentary skills and

project leadership, we would not have been able to accomplish as much or ended up with such a high quality document.
Speaking for the CVWA membership, our deep felt appreciation and gratitude, John. Thank you!
Mike DeCaprio, President

Norm Abrams

For you New Yankee Workshop fans, **Bill Gourlay** tells us that he (Norm) is being shown on the HGTV network at 4:40 am on Saturdays and Sundays in addition to being shown on PBS at 5:00 pm on Fridays. Set those VCRs to record and enjoy the shows at your leisure.
Bill, incidentally, was the mystery craftsman who brought in the second marble tower at the September meeting. Thanks for the information, Bill.

Black and Decker Discounts

Don Greene tells us that the Black and Decker store in the Valley will give members a discount on purchases at the store. As usual, you need to ask for it and present your card.
Black & Decker
20940 Victory Blvd.
Woodland Hills, CA 91367
818-884-6024

Classified – for sale

14" Band saw (105" blade)	$150
Heavy Duty pedestal sander (12" disk, and 7" and 41/2" drums)	$250
Power Pro air compressor (3 HP, 20 gal. tank, 210 V)	$250
3 Craftsman, mechanics benches (54" top, 5 drawers, one door)	$70 ea.
Skilsaw, 6"	$25

Various manzanita burls – make good lamp bases
Contact **Gene West** (805) 483-1210

Bladerunner

The Board is concerned that the web version of the Bladerunner is not getting to people in time to remind them of the meeting dates. As an experiment, all members and guests will be getting a paper copy of the newsletter for a few months to see if attendance at the meeting improves. If you are not a regular attendee, the BOD would appreciate your contacting a member to suggest improvements to the program.

Thanks

The editor has been on vacation and wishes to thank **Marshall Nathenson, Bob Coyle and Ira Goldberg** for preparing the material for this issue.

NOVEMBER PROGRAM

AND HERE IT IS – DUST COLLECTION

Guy Buchwitz and Bob Coyle presented an excellent review of dust collection systems suitable for the home shop or small business user. The main reason for considering a dust collection system is to protect your health. Wearing a mask is one way of stopping dust from entering your lungs, but minimizing the generation of dust at the machine that generates it can also solve the problem. The smaller the dust particle size, as in sanding residue, the more hazardous to your health, because

these sizes stay in the air longer before settling out. Larger chips, such as planer shavings or router debris, are heavier and settle out of the air faster, but they produce the problem of interfering with accuracy of your work by getting stuck in the fixtures or fences that guide the work piece. They can be eliminated at the same time as fine dust by using the same system.
A system can be as complex or simple as the craftsman's wishes and budget will allow.
The design for the single craftsman's shop is fairly easy because he can only operate one machine at a time. The system for a commercial shop must be larger to handle all machines running simultaneously. As more debris is generated, larger collectors, pipes and fittings are required.
The layout of a home shop system is not difficult. **1.** Start by trying to locate the collector (vacuum source) nearest the machines which produce the greatest volume of debris and, if possible, the machines which produce the largest chips. Large chips are harder to move through pipes a long distance, compared to small ones or dust. **2.** Plan the piping with the largest diameter pipe being closest to the collector and the smallest being placed at the machines. Use the largest diameter you can afford for the longest runs, since the vacuum efficiency increases as the pipe size increases. For instance, the loss in static pressure for a 4-inch pipe is only 0.07 units per foot, but the loss for 2-inch pipe is .15 units. Therefore a four-inch pipe can reach more than twice as far to a machine as a two-inch pipe for the same air flow. In this example the numbers are based on a recommended minimum air velocity of 4000 FPM (feet per minute). **3.** Place an angle or "Y" fitting in the mainline at each machine, where the mainline diameter (say 4 inch) remains in-line, but the tap reduces to 2 inches for the machine connection. Avoid tees. Elbows should be of the sweep type rather than right angle, as they provide better flow and less static pressure losses**. 4.** Position blast gates, (shut off valves), at each machine so that they can close off the lines until the machine is actually used. Otherwise, if all machines had open connections, then the system leakage and the loss of vacuum would be very great. **5.** Size or fashion the dust pickups and nozzles so that they are as close as possible to the chip generator blades, and also as small as possible in total opening size. As the opening size gets the smaller, the air velocity increases causing better pickup of the debris. **6.** The vacuum collector should be sized based on the piping losses and CFM of air required to exhaust the machine. Examples of CFM required vary from about 200 CFM for a table-mounted router, to 800 CFM for a 20-inch surface planer. Most other machines require about 350 to 550 CFM. Next, determine the static pressure losses for the piping, which leads to each machine. For each foot of piping, with air moving at 4000 FPM, the loss for each pipe diameter is, 2 inch = .15, 3 inch =. 10, 4 inch =. 07, 5 inch =. 055, and 6 inch =. 045. **7.** Obtain the specs or performance curves from the manufacturers data sheet of the collector you are considering. The CFM and static pressure figures will be shown and from those you can determine if the desired collector has the volume (CFM) and static pressure (inches of water) ratings your worst case piping run will require. **8.** Once the capacity and pressure requirements are satisfied, the last step is to ensure that the system is well grounded at both the collector and machine end of the piping. Moving air generates static electricity that can ignite the dust in the piping and collector, causing an explosion. A ground wire is typically threaded through the piping and physically grounded at both ends of the system. **9.** Finally, a word of caution in operating a dust collection system. Assure that all machinery remains off during the removal and emptying of the dust bag from the collector. The dust cloud created by emptying can be a substantial risk of explosion if a nearby spark occurs. Collectors vary considerably in type and power level, and piping varies as to cost and convenience, so it is best to contact the suppliers to determine which hardware meets your requirement. They can be reached as follows:

Penn State Industries, (800) 377-7297 www.pennstateind.com

Tool Crib,	(800) 635-5140	www.toolcrib.amazon.com
Woodcraft,	(800) 225-1153	www.woodcraft.com
Rockler,	(800) 279-4441	www.rockler.com
Highland Hardware,	(800) 241-6748	www.highlandhardware.com
Eagle America,	(800) 872-2511	www.eagle-america.com

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