



# Tambotie

Newsletter of the Woodworking Association of Pretoria

September

1997

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**S**o stil -stil het die lente weer sy opwagting gemaak, sonder toi-toi en sonder demands. Dis darem wonderlik dat die natuur so baie en so gereeld gee en sonder enige toutjies en voorwaardes behalwe dat ons dit moet waardeer.

Ek weet nie van julle omgewing nie, maar hier in my kontrei is dit verblydend om te sien hoeveel bome en struik aangeplant word en dit ten spyte van aardige watertariewe. 'n Boom en plantryke omgewing trek sommer vinnig al die kwaad en moegheid uit jou liggaam en gee weer perspektief in die lewe. Saam met die bome kom daar dan ook die voëls en sommer baie van hulle. So 'n 10 jaar terug was kwêvoëls en hadidasse 'n rare gesig in die stad, maar vandag is hulle, en baie ander soorte, volop en gevestig in die stad. Mens wonder nou hoekom dit so is?

So van bome gepraat. Nou die ander dag toe kuier ek daar by Andre le Roux in Villeria. Andre is onder andere 'n kranige en ywerige draaier en daarom ook altyd op die uitkyk vir daardie spesiale stukkie draaihout, nie dat hy 'n tekort daarvan het nie. Op sy werf lê daar 'n menigte knoets en bolle en snaakse hout wat wag om gedraai te word. Ek was veral beïndruk met die bielie van 'n wilde maroela knoets [burr ?] met die pragtigste grein en kleur. Uit hierdie meneer gaan daar eendag 'n paar pragtige dinge gebore word.

## Next Meeting

Please take note that our next get-together is scheduled for **TUESDAY 23 Sep** and not Wednesday, which is a holiday. The venue will be **Buchel's** machine department - entrance from Vermeulen street. Sufficient parking is available in front of the premises and also in the courtyard behind the machine shop.

It will be a router evening during which we will be demonstrating and talking about router maintenance, safety, free hand and template routing. I believe there will be a number of useful tips up for grabs.

Hope to see you there.

## VORIGE BYEENKOMS

Ons het weereens 'n goeie opkoms gehad ten spyte van die kaal lokaal. Baie dankie aan **Charles Anderson** wat ons ingelig het oor die geheimnisse van oplegwerk. Dit was vir my weereens opvallend dat gesofistikeerde uitrusting en gereedskap nie 'n vereiste is om oplegwerk te doen nie. Daar kan baie met eenvoudige handgereedskap verrig word. Dit geld natuurlik ook vir die meeste ander dissiplines in houtwerk. Dis wat ons stokperdjie so uniek maak.

Charles het gevra dat ek u daarop atend moet maak dat die nodige veiligheidsmaatreels geneem moet word wanneer chemikalië gebruik word om vineer te kleur.

Remember PROJECT PLANK for our Oct meeting

## WORKSHOP CRAWLS

There is still time to book and attend the various remaining workshop crawls. See previous *Tambotie* for details.

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## Nuwe Lid

Baie welkom aan **Bertus Esterhuizen** van Villeria. Bertus is 'n timmerman, beskik oor heelwat masjiene en sy belangstelling is portretrame, meubelmaak en draaiwerk. Sy tel no is [012] 330-0155

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## ANNUAL EXHIBITION

The preparations for this event are running along smoothly. The detail programme and map to the venue will be included in the Oct issue of *Tambotie*. You are welcome to invite friends to visit the exhibition

Please remember that our annual function will commence after the exhibition.

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## Houtdraaiers Kongres

Die 3de jaarlikse kongres van AWSA [Association of Woodturners of SA] het oor die naweek van 29-31 Aug 97 by Westlake Tegnieuse Kollege in Kaapstad plaasgevind. **Andre le Roux** en **Willie Marneweck** het ons draaiers verteenwoordig. Willie het as volg verslag gelewer [verslag is redigeer vir lengte].

" Ons het Vrydagmiddag daar aangekom en dieselfde aand die AJV bygewoon. Ons verblyf was heel ekonomies aangesien ons in die koshuis tuisgegaan het.

Hoewel ek nie die syfer vir die totale bywoning gekry het nie sal ek dit so by die 80 skat. Die reëlings, wat deur die Weskaap Draaiersvereniging behartig was, was uiters goed. Hulle het net op een punt gefaal en dit was die weerreelings - nat en koud! Tydens die AJV is die nuwe bestuur gekies en is **Izak Cronje** van die plaaslike vereniging as die nuwe nasionale voorsitter verkies. Ons is ingenome met die keuse en voel sterk oortuig dat ons dinge sal sien gebeur in die komende jaar [Izak ek hoop jy lees ook wat ek sê].

Die hele Saterdag en Sondagoggend was daar draaidemonstrasies uitgevoer deur baie kundige lede van ons Vereniging. Op enige tydstip was daar 6 demonstrasies aan die gang waaruit mens kon kies. Hulle was van 'n hoë gehalte, leersaam en interessant aangebied. Daar was 'n TV kamera en monitor by elke demo punt en ons kon presies sien wat by die beitel gebeur - 'n wenner.

Afgevaardigdes was gevra om enkele van hulle draaistukke saam te bring na die konferensie. Sowat 120 items is ontvang en op uitstalling geplaas. Saterdagmiddag was daar kritiek uitgevoer deur Wally Rossini en Johan van Zyl op sowat 30-40 van die items. Die gehalte van Suid-Afrikaanse draaiwerk het ongelooflik verbeter oor die laaste 2 tot 3 jaar en kan seker al sy plekkie in die internasionale toneel begin inneem. Daar was werklik pragtige kunststukke op uitstalling.

Op Sondag, na die oggend se demonstrasies, was die stukke, wat deur die demonstreerders tydens die sessies gedraai was, opgeveil ten bate van 'n plaaslike Hospice. Die mooi bedrag van R 1760 was ge-in.

Ten slotte, dit was baie aangenaam om weer die ou draai-vriende te sien. Daar lei geen twyfel dat, ten spyte van die Vereniging se kinderskoene, die blote bestaan van so 'n vereniging 'n groot effek het op draaiwerk in Suid Afrika."

Namens ons Vereniging ook, baie geluk en sterkte Izak.

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## In the News

[From the Magazines]

The following are articles of interest:

### Fine Woodworking No 125

- \* Alan Peters discusses the British approach to fitting a drawer.
- \* Sharpening handsaws - good article.
- \* Template routing

### Traditional Woodworking- Aug 97

- \* Step-by-step guide to rushing a chair seat.
- \* Sheraton-style low table with inlay and banding. An interesting project for the summer.
- \* Mark Finney looks at the pro's and con's of various woodworking joints.

### Good Woodworking Aug 97

- \* With summer over the horizon a sun lounger is just what you need for the pool. Pete Martin describes how to build one.

- \* Ian Wilkie discusses the bowl gouge.

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# Router Talk

In view of our next meeting I thought it might be a good idea to include a few bits and pieces of interest to all you router users.

and /or router operations, please bring them along to our next meeting. The panel of "experts" will try their level best to provide answers.

I have consulted various sources and combined the info to what is given below. If you should have any questions re routers

**T**he speed at which a bit turns can be important. Dependig on the make and model , routers run at somewhere between **20 000** and **24 000** rpm. Bits are designed to cut at this operating speed. Lower router speeds can produce rough cuts. However, other factors also come into play ,ie **feed rate** and **bit diameter**.

**Feed Rate.** The most common mistake is a feed rate that is to slow [restraint on the part of the operator]. This leads to excessive heat generation, a burned cut and, worst of all, a damaged cutter. You should aim at a constant even feed rate and pressure. The type of material being cut, the amount of wood being removed and the type of bit being used all play a role. The general rule is to make a number of light cuts.

**Bit diameter.** As bit diameter increases router speed becomes a problem. The following diagram explains.

1½ in [38mm] DIA BIT  
Tip Speed at 22,000 rpm = 98 mph

¾ in [19mm] DIA BIT  
Tip Speed at 22,000 rpm = 49 mph

**SAFETY TIP**  
With bit diameters of more than 40mm always start your router at the lowest speed setting

3½ in [89mm] DIA BIT  
Tip Speed  
At 22,000 rpm = 228 mph  
At 12,500 rpm = 130 mph  
At 10,000 rpm = 104 mph

2½ in [64mm] DIA BIT  
Tip Speed  
At 22,00 rpm = 164 mph  
At 17,500 rpm = 130 mph  
At 14,000 rpm = 104 mph

Fig 1

The further out from the center the higher the revs. The critical point is the tip of the cutter. Most sources recommend a tip speed of 130 mph but, not many of us have the know how or the instruments to measure this. What now?

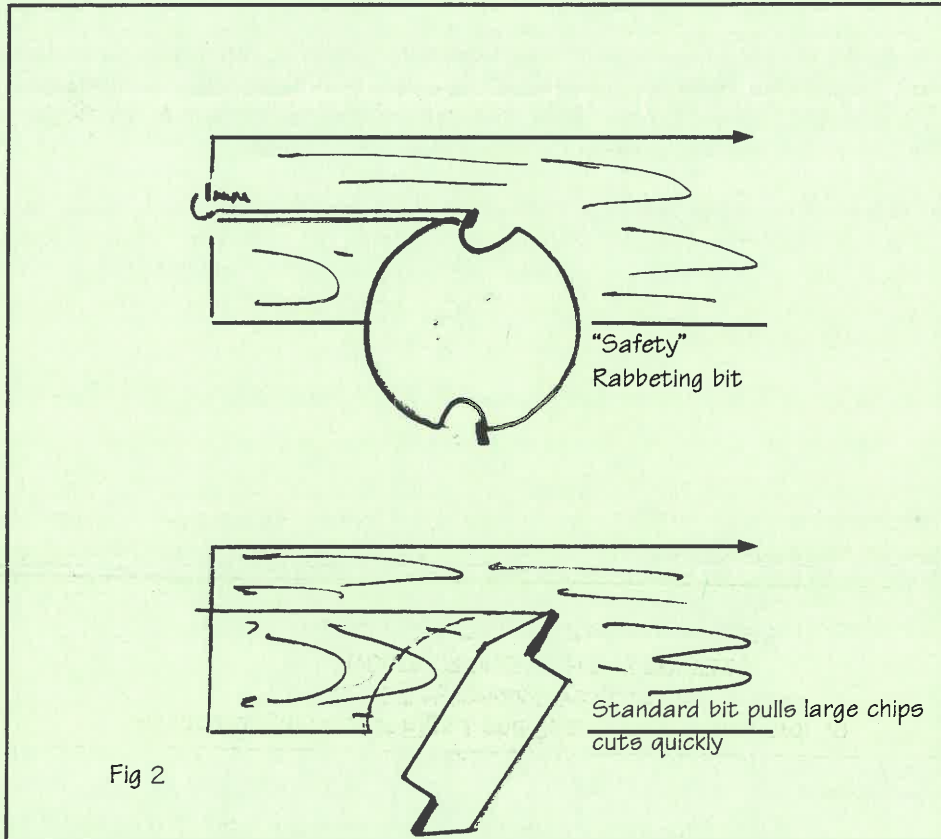
various bit diameters and speeds [start at lower speeds] until you find a speed that is not to high but which gives a clean cut. Large diameter cutters should NOT be run at the highest speed setting.

My advice would be to do some experimenting with

### Anti - Kickback Bits

This concept comes from the European Community. A number of years ago the German woodworking safety commission, came up with a bit design that limits the size of chip that a cutting edge can remove. Since then many manufacturers have started producing these bits.

Basically, the bit body is bulkier, with a pronounced pocket just in front of each cutter. The radius of the body is just about 1mm smaller than the radius of the cutting edge. This makes it almost impossible for the bit to aggressively pull the router into the work, and it works as a governor on the rate of feed. In effect, the bit can only slice 1mm from the cut per revolution which slows down the feed rate.



### GETTING IT RIGHT

The trick in routing - as in all woodworking - is to get the setup right. Basically it entails:

- \* Chucking the bit in the router
- \* Making vertical adjustments
- \* Making horizontal adjustments[if necessary]
- \* Positioning the fence and any hold down's
- \* Securing the workpiece

We will be discussing some of these procedures during our next meeting

Acknowledgement for Figs 1 and 2, and most of the info, to  
 Bill Hylton and Fred Matlack  
 WOODWORKING WITH THE ROUTER  
 Rodale Press, Emmaus, Pennsylvania, 1993