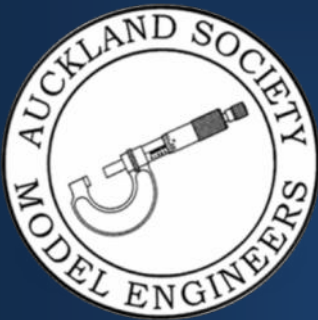


AUCKLAND SOCIETY OF MODEL ENGINEERS INCORPORATED

PETERSON RESERVE, PANMURE, AUCKLAND
PO Box 14570, PANMURE, AUCKLAND 1741, NEW ZEALAND



Club House Telephone

(09) 570 5286

Club Web Site

www.asme.org.nz

President

Grant Anderson (09) 576 8330

E-mail address president@asme.org.nz

Secretary

David Russell 446 0957

E-mail address info@asme.org.nz

Editor

Hayden Purdy 022 0677 892

Email addresses

editor.asme@gmail.com

editor@asme.org.nz

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THE MICROMETER

ASME INC.

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Thames open weekend - double header with good passenger load



Train Roster



Date	Electric	Electric	Steam	Station	Station	Station	Extra Guard #
5 th June	P Moy	A Murley	<u>M Jack</u>	B Parker	G Quayle*	R Reichardt	
12 th June	G Wills	R Craig	<u>T Lawrence</u>	M Richardson	K Ryan*	A Shirley	
19 th June	T Robinson	J W-Buys	<u>M Orange</u>	G Healy	R Smith	R Stratton*	
26 th June	M Plant	P Woodford	<u>B Piggot</u>	R Street*	T Taylor	P Tomkies	
3 rd July	R Purdy	H Purdy	<u>A Pritchard</u>	S Weston	D Addis	I Ashley*	
10 th July	D Black	D Booth	<u>G Wills</u>	P Boyes	R Brown	J Burnett*	P Dowdeswell
17 th July	B Cotton	T Crake	<u>D Russell</u>	R Copeland	R Crook*	P Cunningham	J Cunningham
24 th July	P Eaton	M Granger	<u>G Anderson</u>	B Currie	G Dickey	A Foster*	
31 th July	J Harrison	M Hollis	<u>G Bell</u>	D Gulliver	D Hamp*	R Hannah	

~ **Please Note:** June has some changes from the last publication ~

Bold and Underlined name:

This is the designated **Train Controller**, i.e. the person in overall control of all operations for the day. If you are the **Train Controller** you should phone around the others rostered for that day to make sure they remember to turn up.

Bold with Asterisked* name :

This is the designated **Stationmaster**, i.e. the person responsible for activities in the station area for the day. The Stationmaster is also responsible to account for the day's takings.

Please Note, there is no expiry period or date on train ride tickets previously sold.

Please Note:

On your rostered day you should arrive by 12.45pm to get prepared for the days running. If for some reason you are unable to fill your rostered date, you are respectfully reminded that it is your responsibility to find a replacement member to fill the gap - please don't let the rest of the team for the day be left "short-handed".

Club Calendar

ASME Events	
7 th June	General Meeting. Talk by John Olsen on his fathers NZR rail experiences at Cross Creek.
11 th June	Working bee to finish the veranda painting job.
14 th June	Committee Meeting
21 st June	Workshop Night at the clubrooms.
2 nd July	Invitation 3-1/2" & 5" only day at Manukau Live Steamers, No public, come and have a fun day on a different track, try the ground level experience.
5 th July	General Meeting, Will include a general discussion on the outcome and results of the Track & Trolley discussion paper.
12 th July	Committee Meeting.
16 th July	Mid Winter Luncheon, catered lunch \$20 per person subsidized cost, Please contact the treasurer to secure your tickets.
8 th & 9 th October	ASME annual exhibition and judging of exhibits, start getting your exhibits ready and please note we are still looking for a coordinator (please contact Grant).
10 th December	ASME Annual Dinner and awards presentation.
General Events	
4 th - 6 th June	Manukau Live Steamers, Queens Birthday open weekend and 30 year celebration dinner \$15
8 th & 9 th October	Puffing Billy Railway Gala, Victoria, Australia
26 th November	Glenbrook Vintage Railway open invitation to like minded clubs, ride by donation, a great day for all.
5 th – 9 th Jan 2012	International Convention, Whangarei

Presidents Report

June 2011

Thank you to all who returned your Track & Trolley Questionnaire – we had 51 forms returned by the deadline and 3 more received over the following week – in total that's almost a 50% return rate of all of the club membership. It's good that such a high percentage of views have been made known about what is thought of this ASME facility. A good many returns included additional comments which will be very useful to the committee as it works through the "where to, from here" debate – thank you to those of you who took the time to do this. At present the returns have been passed over to David Black to audit and to prepare a presentation for the July general meeting.

Two working bees have been held since the last report, one as advertised in the May Micrometer on Saturday 7th and a second as called by email on 21st May. Good progress has been made on the painting of the upstairs verandah area of the Clubrooms. Thank you to the 7 members who turned out to help me on these two working bees (Peter Tomkies (2), Dave Russell (2), Timothy Robinson, Tony Lawrence, Gary Farquhar, Ross Smith and Peter Woodford). As a Club we are fortunate to have had some help on this project from the Tuesday Club (John McManus and Bill Parker), but we will still require another working bee. Please come along on Saturday 11th June and help get this project finished. In addition, there are a lot of fallen leaves which need to be cleared away from the track – because of the small numbers of members fronting at the two working bees, no one has been spare to do this important task.

May 21st was a busy day at the Club. At 9am we had five members along to the working bee as mentioned above, then at 11am, the Safety Committee (Greville Wills, David Black and Gary Farquhar) met for their 6-monthly meeting and finally from 1pm we had some 17 persons along to enjoy the May “fun” run day. This was a great success with some 8 steamers (including three 3.5” gauge) on the track and a traction engine on the surrounding pathways – no pressure from the public, just pure fun! Just as well several people brought their own trolleys along; otherwise we may have run short! Our next fun run will be at Manukau Live Steamers on their special day set aside for 3.5 and 5 “ gauge locos only – Saturday July 2nd from 10am (lunch provided).

May’s workshop night broke the dearth of home workshop night visits so far this year, with a visit to Murray Lane’s shop. About 12 members enjoyed a descriptive commentary on the various machines Murray has and of some of the projects he is currently working on – thanks Murray for hosting the night.

The accountant who was retained to undertake a review of the Club’s accounts for the year ended 30 September 2010 has provided his certificate to the effect that the accounts are all proper and correct.

The Warren Green Estate workshop items have now been all sold; thanks to the Bereavement Trustees who worked on this disposal (Hugh Martin and Richard Street) and to Murray Lane who assisted with cataloging and valuations.

Thanks to Graeme Murray for engraving the number plates and to Gary Farquhar for securing them to the track blocks – this will enable problem areas on the track to be more clearly identified by reference to the numbered blocks – note that every 10th block now has a reference number fitted to the top right hand side of the facing end of the block (in the direction of travel) starting immediately after the points at the station – please use these references to report the relevant block number when advising of track faults in the works book.

Remember that the Model X Show and also Manukau Live Steamers open days are on over Queen’s Birthday Weekend – both worthwhile events to visit.

Again this month you will receive an email copy of the Micrometer sent to all members for whom we have a correct email address. We trust you will enjoy the colour version and see the benefits of this method of delivery. A paper copy (other than to those who have requested email only) will still be sent as well, at least in the meantime.

Have you booked your tickets for the mid-year luncheon on Saturday 16th July yet? We are limited to a maximum of 50 people, so please see Graeme Murray for your ticket, which must be pre-paid (\$20 per

person) to avoid missing out on this great social occasion.

I attended the Thames Small Gauge Railway's open weekend earlier in the month – several other members were there too (Greg Burrows, Mike Orange and Bill Parker). We enjoyed mainly good weather with especially great catering – they really know how to look after their visitors!

A few additional dates for you to add to your diary are as follows: Annual ASME Exhibition and Judging – 8 & 9 October, visit to Glenbrook Vintage Railway - 26 November and Christmas Dinner and Prize Giving - 10 December. More details will be advised later, but please note in your diaries now!

Keep out of the wet and in the workshop -happy modeling!

Grant Anderson

22nd May 2011

Latest in Engineering

Extracts from The Model Engineer and Electrician of June 8, 1911.

The pumping station built and equipped for delivering sewage and fresh water into the south branch of the Chicago River is provided, says the *Engineer*, with four centrifugal pumps for sewage and two screw pumps for lake water, the capacity of the six pumps being 2,100 million gallons per day of twenty-four hours. Another pumping station to discharge water into a new drainage channel along the shore of Lake Michigan has been equipped with four Allis-Chalmers screw pumps each with the capacity of 15,000 cubic feet per minute.

In a discussion on a paper dealing with the combustion of coal, which was read some little time ago in America, a speaker pointed out that the length of the flame in a boiler furnace is a measure of the imperfection of the furnace rather than of the quality of the coal. The proposed American Government tests to determine the length of flame proceeding from different kinds of coal will, he urged, be of little value unless they are supplemented by other tests to show how the flame from any kind of coal may be shortened by making provision for the complete mixture of the gases and air before they enter the combustion space.

Internal Steaming Engine

To The Editor of *The Model Engineer*

Dear Sir,- In the description of a proposed "Internal Steaming Engine" criticism was invited. I have been waiting for such, but it would appear that no one wishes to do so just at present. I do not know whether any of your readers have been attracted by its seeming possibilities and have started on building such an engine. However, I am inclined to think that the idea is an old one, and would prove quite unsatisfactory. It may be noted that what is lost sight of is the fact that the power is not in an engine but in the boiler, the more heating surface the greater the power. The heating surface of the proposed engine cylinder is so small that it would give but very little power of any use. To keep a 3-in. bore cylinder going with steam at full power takes over 50 square feet of heating surface! Yours, etc. A. H. W. Norgate, Capt.

Brian Cotton

Bits & Pieces

General Meeting, 3rd of May 2011

Hosted by Hugh Martin, reported by Roger van Ryn

A jewellers lathe built into a travelling case with words and music, presented by Murray Lane, was first up. Murray has made up this lathe with full sets of collets and a draw bar he had to remake. One could visualize the jeweller sitting at the dining room table making a part. **Photo A**

Murray's larger, beefier tailstocks for Myfords are nearing completion, with clamps etc. **Photo B**

Murray also received some help from Graham Bell on getting his vintage "Skill" belt sander pulley back together again... once the "vanishing-spring" had been found. **Photo C**

Ross Purdy presented a finished Quayle 16H in a nice glass show case. The well finished engine may feature in "the Shed". The glass show cases are made by a neighbor of his, costing about \$40 for the case in use. Check out www.displaycases.co.nz **Photo D**

Hayden Purdy showed some plans for a 3 ½ and 5 inch backyard layout that he had drawn on CAD.

Greg Burrows is doing well with his garden gauge loco, showing some side links this evening. **Photo E**

On the subject of broken things, Pete Woodford showed a reamer that broke on the way out.... others concurred that often this is the case. So be warned, clear often when reaming, to help minimize the chance of breaking. Broken taps are also a pain, It also depends on whether it's the last hole or Friday night. **Photo F**

Pete's knocked up some soft lathe jaws and a razor-blade tool to trim the concession tickets in roll form, preserving the perforations a bit longer. **Photo G**

Grant Anderson showed some caliper-type adjustable con rods to get the distances right when remaking bearings etc for side rods. **Photo H**

Some TINY original Champion spark plugs in original packing where presented by Brian Cotton. Some rarity value there!? **Photo I**

Bill Parker showed the progress of the boiler feed pumps made by MBM, parts of which are now CNC made. He described a broken 10BA tap stuck in the job, with lots of commentary from the floor forthcoming on boiling the brass part in allum to eat the tap out... or maybe just be patient and leave it soaking over night. **Photo J**

Bill also brought in a proper calculator which is round and can tell all sorts of wonderful things, which Bill finds useful, mm-inch conversions, avogadros number, lunch time, etc. **Photo K**

Graeme Murray has made a notching tool for a specific task which has a lever and cam operation giving tons of force just where it counts. **Photo L**

Mike Jacks lovely Radius rods for an English customers 7 ¼ A4 Nigel Greasley are near to gracing the loco. **Photo M**

Ron Copeland presented a couple more engines, including an OS Max .20 and a French Diesel engine that has a neat adjustable compression lever. **Photo N**

A what is it in the form of mini roof racks, proved to be used for setting the individual blades on a planer/thicknesser. **Photo O**

The HUGE (at least three hernias) brass “whatsit?” on the table was a ballast tank air dump valve, one of many used to submerge the HMS Reknown, an atomic sub. While Chris Ratcliffe has this one, they will probably have to stay down. The Reknown belonged to the “Trafalgar” class and didn’t weigh about 7500 tons. (Well, when its under water it doesn’t weigh, does it?) **Photo P**

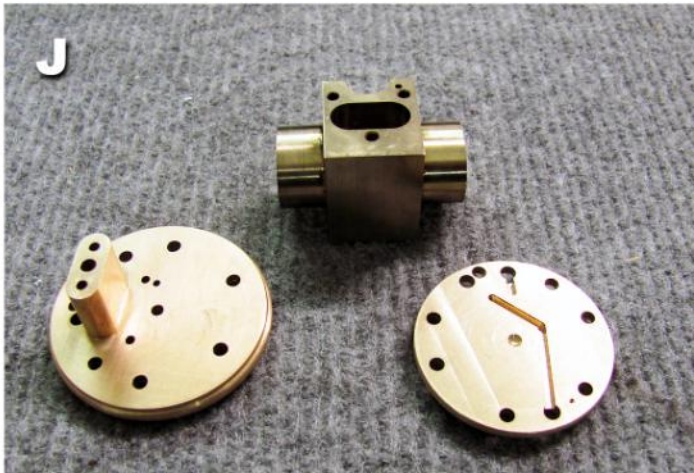
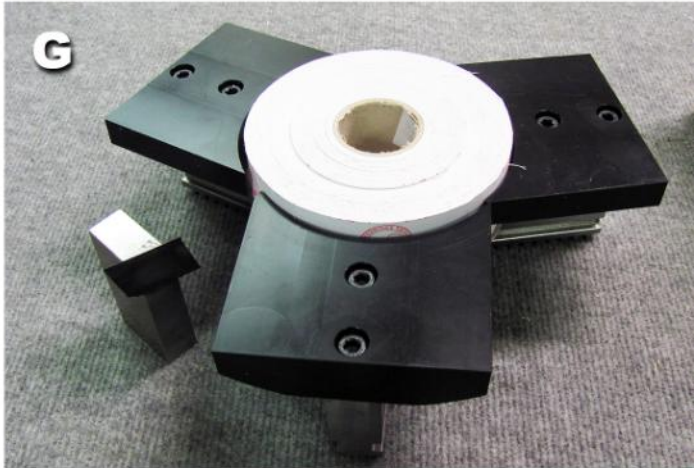
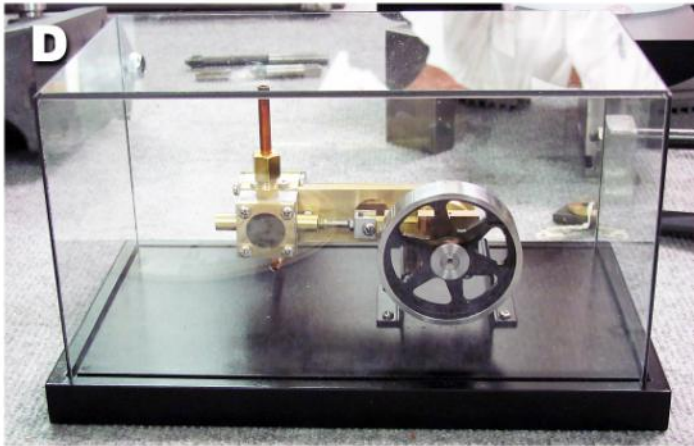
Chris gave a very interesting talk on the mathematical modeling of a “sub” done in the early stages of design. I cant repeat the content here as big brother may be watching.

We had a visit from Bill Krippner from the Manukau Live Steamers, who extended a very cordial invitation to the club members to attend their 30th Birthday celebrations. These will be held at Butterfly Creek on the 4 June, price \$15 each, which is cheap, and includes a “money-off” offer for seeing the butterflies at \$10.50 each. You snooze, you loose; contact them now.

Another distinguished guest was John Whitmore from the Auckland Wood Turners Guild, who told us a bit about them, and touched on the similar aspects of our clubs. Check their good website on <http://www.sawg.org.nz/>. (If you get this letter in email form, you just click on the website name, and “Bing”, the website just pops up on your computer screen. Try that with a bit of old tree.) (How does it go?)

We had a few more guests, hope they enjoyed the evening.

Rag.



Club Fun-Run

21st May 2011

On a recent Saturday the club had its fun run day - a day for members to dust off their locos and have a go at playing 'trains', where there is no pressure from the public. The weather was off to a shaky start, but cleared up once the locos were being steamed up.

A vast array of locomotives flooded the tracks, and cries of whistles, steam and crackling fires filled the air - what a delight! According to some, this was the largest amount of locos seen on the track at one time for at least 15 years! Regardless of this everything went smoothly for the most part, with only a slight hiccup's by drivers every now-and-again.

Our loco 'Porter' whipped around the track flat-out all day (no breaks at all for the poor thing...), chewing through a whole bottle of LPG, and quite a bit of steam oil - but no problems to report. My younger brother, previously uninterested in driving trains, had a go and was hooked, now it's all we hear about *"When can we go train driving next?...We need another train...When can I get my train licence?..."*. Surely this is what our hobby is all about, being around people of whose company you enjoy, enjoying the fruits of your labour and getting other people excited about what we do.

Thank you's are in order for the following people: All those who attended the working bee prior to the main event - helping keep our clubrooms maintained, clean and respectable, Hugh - for providing the morning tea, Greville & Dave - for generously letting me drive their loco's (real steam locos...) and everybody who turned up on the day, making it a pleasant and memorable event to attend. I hope there will be many more of these in the future!

Ed'



Peter, Alan, Bruce ("How's this go together?!") and Hugh



Alan, Hugh and Pete in action.



Pete steams up the 'A'



Alan steams up his "Firefly"

Around the Clubs

June 2011

Slipstream - Auckland Model Aero Club - May 2011.

Plenty of action from the various sites and an article on Tamati Coffey's visit to Highbrook to film the weather forecast, and some flying, though the weather was not good. All manner of models and propulsion systems. A good read.

Sails and Rails - Southland Society of Model Engineers - April/May 2011.

Cover photo of a 1/4 scale Piper, great model. Work on a battery loco for the Club and thoughts on a code for steel boilers. Notes on lathe speeds using different tools. A great picture taken in the Auckland Railway yards taken in 1937 showing an F and a K together.

Leading Points - Thames - Autumn 2011.

Preparations for the Open Weekend. Visit to Matakana Small Gauge Railway with some good pictures. Photos and info on the Wellington Cable car.

Wheels and Floats - Tauranga - April/May 2011.

Some good photos in black and white that can be viewed in colour on the website www.ontherails.com/taurangaclub Article on the gun made by the Railway workshops for the war effort. Also the Big Smog of 1952 over London.

Engine Booster - Los Angeles - March and April 2011.

Great coloured photos of the members including a 100th Birthday Party for Gordon. Great photo too of an 1896 Porter Loco with the Disney Cars.

Mailship - April 2011.

The story of the last of the Clyde Puffers. An article, with photos, of the Fulkirk Wheel.

The Workbench - Durban - May 2011.

Some Club news concerning a possible problem with the lease. All about Apollo 13 and coloured photos from the Sandstone Steam Gala showing Garratts and O&K in action.

Big Wheel News - Victoria - March/April 2011.

Good article on the Wonthaggi Line and the coal mines it served. Detailed article on making self contained loco lamps. Photos and write up on their night run.

Model Torque - Napier - April 2011.

Nice bit of history of the Club and the building of the Maid of Kent. The Open Weekend a great success, with some pictures of the members on the go carts.

Blast Pipe - Hutt Valley and Maidstone - May 2011.

Tribute to Harold Sinclair who died recently. Well known in Auckland, he attended a number of our Easter Weekends with his enormous Mallet locos which always run perfectly. A tribute too to Colin Burleigh, well known for his work on the MEANZ legislation. Proposal to upgrade Maidstone Park by the Council. Great photos of the bits and pieces and of track running.

The Adelaide Miniature Steam Railway Society ,

Cover photo and articles on John Wakefield's tank engine, including some boiler drawings. Modelled on South African 2" gauge 4-6-2 by Hunslett built in 1907 - the model is big.

Also an article and photos of 600mm gauge preserved railways in San Paulo.

Expansion Link - Hamilton - April 2011.

Visit to Mana Ariki. Donated concrete tank converted to a dangerous goods shed. New bridge in place.

Con Rod - Otago - April and May ,2011.

The weather was kind and the 75th celebrations a great success. Article on the smallest petrol engine, tiny enough to power a watch. Great model of the Mangatukutuku Viaduct. New semaphore signals under way.

Northern Views - Whangarei - May 2011.

Photos of the new turntable and steaming bay, looks good. The story of the gold dredging submarine. Also the story of trench locos and photos of a model one on the track.

Dreamers and Steamers - Manukau - April/May 2011.

The story of delivering DXR80411 to Nelson. Dave and Lynne Giles visit to the Easter AALS Convention held in Newcastle Australia. Amongst other things at the boiler meeting it was learned that Duplex SAF 2205 is well on the way to being included in the Boiler Code. Bill Krippner visits the 75th event at Dunedin.

Alan E.

Classifieds

For Sale

Workshop Sale

Due to health reasons it has become necessary for me to sell my workshop. For enquiries about the following items, please phone John Harrison at (09) 480 6638, or email him at jf.jh.Harrison@xtra.co.nz .

Chevpac precision 6" bench lathe, 16" gap (gap never removed), 3 & 4 jaw chucks, faceplate, steadies, micrometers graduated in imperial and metric, forward an reverse switches, some lubricants and coolant and a selection of other tools. \$3000.00

Mill/drill machine - R F 20/25. \$1400.00

Horizontal/vertical rotary table \$300.00

Burnerd model 36 4 jaw chuck. \$60.00

Jacobs chuck 13mm. \$40.00

Horizontal/vertical metal cutting bandsaw - 4.5" throat. \$275.00

Faceplate. \$20.00

Calipers: Moore & Wright spring bow inside caliper, spring bow outside caliper, spring divider and jenny caliper. All four for \$72.00

Henrob Mk IV Pressure gas welding set. Complete with trolley, small gas bottles and low pressure gauges. This is a very versatile machine designed for the aerospace industry which required that unskilled welders could produce high quality welds. The instruction manual details the procedures for dealing with various materials. \$500.00

Telescoping gauges. ½ to 10 inches. \$35.00

Stuart 10v kitset. Some machining done to the bed plate, the column and cylinder rest are still in their packaging. Building instructions included. \$170.00

Little engines upright steam engine, model VT 225. This engine is about half completed and would be suitable for a small launch. Plans and stock included.

~

"Firefly" 5" live steam locomotive, coal fired with passenger trolley. G.W.R., 5400, 2-6-2 tank to Martin Evans design.

"Tich" 3-1/2" live steam locomotive, 0-4-0 tank shunter with coal truck tender.

*Best offer before Christmas, contact Alan Prichard, Ph (09) 570 9452
5" Firefly as described above*



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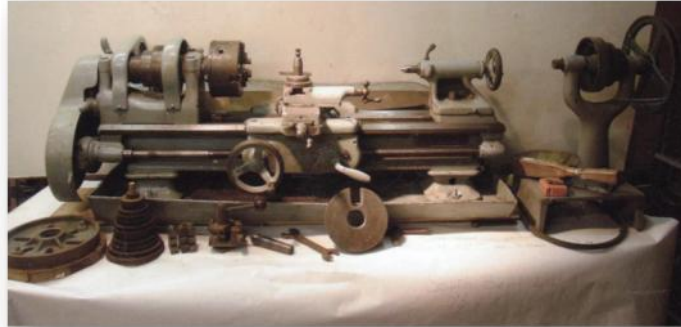
Tom Senior M1 horizontal and vertical milling machine with vertical head attachment, auto feed table, various cutters including side and face cutters, slitting saws. Swivelling machine vice, Clarkson type cutter holders 2MT for vertical head, 3MT for horizontal spindle, misc end mills all in good condition. \$2500 o.n.o. Buyer removes.

Contact Jim Yearn, Ph (09) 298 0722

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9" South Bend lathe, brought into New Zealand in the 1940's. The single phase electric motor is available and from that era. A faceplate, 3 jaw chuck and change gears are included. I am biased but feel it is too good for scrap, and its value of \$450.00 is sought.

Contact George Hamilton. Ph (09) 520 1795



Notes from the Editor's Desk

ASME Stores

With this issue of 'The Micrometer' there is an updated price list of the ASME Stores attached. Prices in the main have remained the same. There is a good stock of the Workshop Practice series. Most books are ex stock (these are marked on the stock list with a *). If there is a book not in stock let me know and we will arrange to get it.

Contact Gary Farquhar, Ph (09) 576 7025

Magazine Articles

Please feel free to send any queries, articles or ads to the editor using the following email address; editor.asme@gmail.com (if you are reading this on your computer, just click the blue text, and it will fill in all the important bits for you). Any build articles, reviews, interesting bits, photos and the likes are enthusiastically welcomed.

Be Identified with Club Apparel

ASME dress shirts one available size large, long sleeve for \$59.00. Others available by order only.
Club embroidered 60mm dia. sew on badges. Ideal for your driving overalls at \$10.00 .

Contact Hugh Martin, Ph (09) 536 4544