The Oily Rag!



3.5"gaugeIthink?YoungmasterWilkinsontriesout hislocoonourtrackinVivaryPark.

The Taunton Model Engineers' magazine

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From the Editor

PreparationsfortheBirthdaypartyarenowdominatingactivities withintheclub.IfyouarenotalreadyonDavidHartland'sl istof helpers,pleasegetintouch.Our"archivist"istryingtocollectas muchashecanofthehistoryoftheTME.Sinceth isais70th birthdaymanyearlymembersarenolongerwithusandwemust alreadybeloosingalotofthingsofinterestfrom theearlydays.If youcanhelppleasegetintouch.Achanceapproachfromthesonof amemberfromthe1960sleadtosomegaps beingfilledOur archivistreportsonhisvisittothisformermember.

Nameplates, number plates and makers plates add altomany models. I was not sure if including two articles on the subject in the same is suewas a good idea but since they do cover different aspects (and I was running short of copy!) I decided to go a head.

Thetypicalmodelengineerisanolderman.S oRobertDawes' articleonhowhetackledaproblemassociatedwithageingisboth interestingandparticularlyrelevant.

John

Chairman's Notes

ByMikeJohns

MembershadapleasantafternoononEasterSundayinVivaryPark hostingourguestfromtheChildren'sHospice,SW.Ourdonation wasdulypresentedtoPaulaHullettasintendedandTME subsequentlyhadanewsitemintheSomersetCountyGazette coveringth is,oursuccessesin2015andanniversaryplansforthis comingJuly.

UnfortunatelytheEasterweekendwasmarredbynotbeingableto runatCreechthefollowingdaywhenwehadinsufficientstaff on site.TheTME'RulesGoverningPublicRunning'onpages16 -18of theTMEHandbookarequitespecificinstatingthataDutyS teward andatleast3othershavetobeavailabletoassistbeforerunningcan start.Thisappliestobothrailways.

Although afirstoccasionforCreech(wehadastaffingproblemat VivaryParksomeyearsago)weneedtotryandavoidarecurrence. ThiswasdiscussedontheAGMeveningafterdealingwiththe formalbusinesswhenanumberofmembersindicatedthatthey wouldben efitfromtrainingtojoinin. Therewasalsosome discussiononpossiblyrosteringourresourcesbutthisisdependent onhavin gsufficientmemberspreparedtoattendreasonably regularly,particularlyasDutyStewards.

Thebasicoperatinginstructionsa recontainedintheHandbookbut experienceoftheirapplicationandpracticecanonlybeacquiredby attendingrunningdaysandworkingalongsidethosemembers operatingthepublicservicesatthosetimes. The practices and procedures applied vary slightly one ach site and are best learn ton siterather than informal trainings essions.

Inadditionwearrangeclubrunningevening sinVivaryParkin summermonthswhilemembersarefreetousetheCreechfacilities atanytimeprovidedatleast2membersar epresent,orThursdays whenthereareworkingpartiesonsite.Thesegiveopportunitiesfor memberswishingtojoinintolearn howtousetherailwayand/or becomeadriver,etc.withoutthehassleofpublicrunning.

Weallneedtorememberbothrailway sareClubfacilitiesprovided onbehalfofallmembersbuttheydobringcommitments, particularlywhenpubliceventstakeplac e.Thesearewhenweneed willingoraspiringactivememberstoturnupandhelpplease.

News from Creech

ByMikeJohns

ApartfromEasterMondaytherunningseasonhasstartedwellwith upto3operationallocomotivesonhandeachday.Stewardnumb havefluctuatedbutithasbeenquitepleasantonoccasiontobeable totaketimetotalktootherorpotentialnewmembers oreven continuewithprojectsintheworkshop.Havingextrapeopleonsite hashelpedcreateamorerelaxedatmosphere,helped byDiana Fathers'stalwarteffortstokeepeveryonefedandwatered.Shehas alsowelcomedhavinghotwaterforwashingupthis year!

Thetrackisinreasonableconditionalthoughtherearesome maintenanceneedstotakecareoftokeepitingoodorder. Plansto incorporatesomealterationspriortoourAnniversarydayhavehad tobeputonhold –thepresentteamhasplentyto doingetting everythingelseready.Grasscuttinghastoberegularlymaintained andcutshortwhereweintendtoputthemarqu ees.Thisalsoapplies inthestationareaandsteamingbays.

Thelatterhaveyettobeequippedwithlocalwateringpointsbu tthe newwaterstandpipeatthestationhasbeencommissionedandis demonstratingitsworth. It is regularly being used by ste am locomotive drivers in preference to the waterhose provided by the turntable.

ThankstoTimGriffithstheride -onmowerism orereliable(at present)andinregularuse.HedgesarebeingcutbackbyMike Pinkneywherenecessarybutthereareoutstandin gfencerepairsto betakencareof.TonyGoslingcontinueswithhisworkwithnew ballastboardsplussomere -ballastingashe goes.Mundanejobs whicheachcanalwaysusehelpwith.

ers

InsidetheshedJohnPickeringandAndyCookehaveassembledthe 6bogieframesneededfortheadditionalridingvehiclesready for thewheels,preparedbyDaveWood,bearingsandspringstobe fitted.Unfirtunatelynoonehascomeforwardyettotakeont he makingofthebrakeorbufferpartsneededinspiteof2previous appeals.Whilstwecanmanagewithoutbuffers(havingbar couplings)weshouldhaveoperationalbrakestorun3coachfully ladentrainssafely.

DavidHartlandhasalmostcompletedrefu rbishingthevehiclehoist insidetheshedandisnowconcentratingonthepreparationsforthe anniversaryday. Thereismucht obedonesoifyoucansparesome timepleasecontactDavidandcomealongtohelp.

Report from Vivary Park

ByDianaFathers

EasterSundaysawthestartofthenewseason. UnfortunatelyIwas unwelloverEaster(havingmade4dozenrockcakesforboth Vivary&Creech!),soIamgratefultoDaveWoodforpassingon thenewsandkeepingmeup -to-date. I'mtoldtheweatherwas "sunshineandshowers -buttoomanyshowers". Evenso, there wasagoodcrowdand224ticketsweresold. Theintrepiddrivers, allwithelectriclocos, wereDave, JonandJulieandBryan, Phil beingawayonholiday. Theymusthavebeenreallybusyandth ranoutoftimetables.

ey

The following Sunday, being the first in the month, the weather was a little more accommodating, and 254 tickets sold.

Glorious weathershone on us for the nextrunning and the queue stretched around the pavilional day.

Wewereabitshortonhelperssoitwas somewhatfranticatthepayingendof thequeuewhereIhadtooperatethe entryandex itgatesaswellasselling theticketsandmindingvariousbitsof property. Andwesoldanamazing 350 tickets!Thegoodweath erhas continuedsofarandwithitcomethe passengers!Sadly,wearemissingtwo ofourregularstewards -JohnHenson andJo hnHancock, who are no longer abletocomeandwewishthemwell. WewereallgladtoseethatbothDavid SpicerandBarryBaxte rareontheroad torecoveryaftertheirrespectivespells inhospital,longmayitcontinue.



Waitingforthewhistle.

The Tuesdayeveningget -togethers have now started again; it 's such a friendly crowdat Vivary, soif you haven't been before, give it atry.

Oneitemofsigni ficance: Wemaybeindangeroflosingourhutat Vivary, asthereare planstochangeit into tearooms, with no room for our quipment or tea -making. Phil Mortimerhas drawn upa petition which has already gained a good number of signatures but if youge the chance, please signittoo!

Iwilltrytokeepyoupostedbutthesteamrallyseasonisnow underwaysothereportsfort hesummermonthsmaywellbeabit sketchy,forwhichIapologiseinadvance.

FinallyIhopeyoulikethepicturesofsomeone whoispassionate aboutrailwaysandourtwotracks.SenttotheeditorbyEmily Wilkinson.

Creech Miniature Steam Gala.

ByDavidHartland

Thiseventiscomingcloser —Saturday23rdJuly.ThisisourClub's 70thbirthdayandwehopethatallmemberswillbeableto come alongandcelebrate.Yourcommitteehasbeenworkingonthe arrangementsnowforninemonthswhichseemsappropriatefora birthdayevent.Thefinaldetailsareemergingnowfortheday —basicallyitwillbeanexhibitionofmembers'workcoupledwit ha majorrunningdayattheCreechTrackandwithtractionenginesin thepark.Expectasteamrallyatmosphere!Theexhibitinopensat 10.00tothepublic,andclosesat4.00butafterthatitisintended therewillbearealbirthdaypartyformembers andguestsonly, whichwilllastonintotheevening.

Thisisgoingtobeabigday, and to make the best of it, we need YOUthere!Allmemberswillhavefreeaccesstotheexhibition and unlimitedtrainrides, as well as the chance to bring a 7½ in engineto run(ora5inengineforsomeoftheday)butthereislotstodo during the day, and setting upon the Friday and cle aringuponthe Sunday, so we hope that all members will be able to offer sometime overtheweekendundertakingsomestaffingd uties.AmasterRoster isbeing compiled, comprising all sorts of jobs from Exhibition Steward(hoveringaroundthedisplays,ch attingtovisitors);Fire Watchers(sittingalongthelinesidewatchingoutforfires); Ticket Sellers(forthosewholikehandl ingmoney);PlatformStewards(for thosewholikeblowingthewhistle)andtheinevitablebutvitalCar ParkController(fortho sewholikegivingdrivershandsignals). Thesejobswillbeallocatedonashiftbasis, fortwohourseach, so therewillbepl entyofoff -dutyhourstoenjoythefun.

The exhibits themselves are being coordinated by Bill Edmonds on

andDavidHartlandandonthedaybyLeeKimber.Doletthem knowifyouhavesomethingtobringalongwhichisnotalready listedormightbeofinterest —particularlyanythingcompletedin thelastfiveyearssincethelastTMEexhibition.

Ifyoua rebringingalocomotivetorun,thenpleasecontactPhil Mortimerwhowillbehostingthevisitingenginesontheday. Ifyoua reabletohelpinanycapacityandhavenotalreadybeen 'collared' foraspecificduty,thenpleasecontactDavidHartland. TheMasterRosterwillbepublishedonthewebsite,andwillbeon displayontheFridayandSaturdaymorningsothereisplenty of opportunitytoaddyournameandfillupthosegapsintheshifts. Theaddress,ifyoudonotalreadyknowit,istheRecrea tionField, HydeLane,CreechStMichael,TauntonTA35DW.Ifyouare driving,pleasetrytoshareamotorcarwithothers,beca usespace forcarswillbelimited.

Finally, we have called this birth day party a 'Gala' day, with some greatirony - the name is a shortened version of 'Gallows Day', the occasion of a Public Execution. If there is any one coming to our Party expecting a literal enactment of the Galaname, they are likely to be disappointed.....

Tom Jewell reunited with club locomotive "Jack gardener" (aka Iris)

bythearchivist

EarlierthisyeartheclubreceivedanenquiryfromMikeJewellof Exeter.HewastryingtofindoutabouthowhisfatherTomha denjoyedseveralyears'membershipofTMEinthesixties.

Tomhadbeenoneofthe teamwhoregularlytook theclublocomotive and portable track (the previous incarnation, not the swanky one we have now!) to fetes.

AvisitwasmadetoTom inmid -MayandIristaken alongforhimto reacquainthimself.He waswell pleasedtosee thelocoagainandhad manymemoriesofhappy daysspentoperatingthe engineatfetes.Mike Pinkneyputtogethe ra DVDofourrecent activitiestogivetoTom sohecanbringhimself uptodatewithhowthe clubhasfaredinthe interveningyears.

Tomisn'tinthebestof healthbuthekeepsactive witha00gaugemodel railwayinagardenshed.

Ifanyoneremembe rs Tom,contactdetailscan bemadeavailabletoyou viatheeditor.



TomJeweldrivingtheclub's"Iris"in the 1960s



Re-unitedhalfacenturylater.

More from the archives. Annual dinner at the Burling ton restaurant.

ModelEngineersDine



Taunton Model Engineers' Clubat their annual dinner at the Burlington Restaurant

Unknown	Unknown Invisible	
Invisible	DonHancock	KeithSollway
Invisible	Mrs.Hancock	Mrs.Sollway
Peter Logsdon	Mrs.Jewel	Rose -MarieWhiting
_	TomJewel	NoelWhiting

BAGNALL "SANFORD" (the sequel)

BillEdmondson

To complete the locomotive, one small component had to be added - a small brassplate attached to the motion plate which declares the patent of the valve gear by Ernest Baguley.

Ihavedonesomeetchedplatesovertheyears, including justone successful attemptatusing aphotographic negative of the image overlaid onto the brass which has been treated with photoresist didwork, but I found it very tricky.

.It

InitiallyIcouldn'tfindatradertomaketheseplatesforme, howeveranunexpectedsequenceofeventscametotherescue. WithastronginterestinallthosenarrowgaugerailwaysinWales,I regularlylookattheappropriatewebsites.Earlyin2015loo kingat the detail for a galabase dat Dinas Station on the Welsh HighlandRailway, Inoticed that a Tom Daubenwas exhibiting.



The Baguley valvegear on "Sanford" and the plate.

NowprobablytothemajoritythesurnameDaubenwillmean nothing, but older members will tell you all about Ron Dauben, a closefriendofNoelWhitingandothers.Ronheldvariouspostson theTMEcommitteeandwasverywellliked -agentleman.He had asonTomwhoweknewasateenager.Then,inthe1990s,sadly RondiedprematurelyandTomandhismothermovedaway.

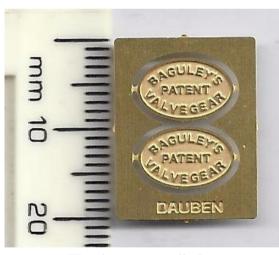
Aroundthesametime, as the gala on the Welsh Highland, I'd made contactwithChrisTilleywhorunshisowngardengaugerailwaya BishopsLydeard.InconversationTom'snamecameup;Chrisknew allabouthimasitseemsTomhasbecomewellimmersedin

t

miniaturerailwaymodelling —heisforexampleeditorofthe009
Societymagazine.ThroughChrisIwasabletocontactTom.He is
nowmarriedtoEmmaandinlate2015theymovedfromKentto
Devon.Ofparticularinteresttomeisthattogetherwithacoup leof
friendsTomrunsasmallmodelrailwaysupplycompany
"NARROWPLANET"Googlewillsoonfindit.Prominentonhis
website,theyadvertisethattheyareabletosupplyetchedplates —bothofftheshelfandbespoke.

Youcanguesstherest;Tomreadil yagreedtomaketwoplatesfor me –theyare10.8mmlongby7.2mmhighon0.6mmthickbrass scaleddownfromtherealthing.

Tofitthem, Isilversoldered two 10BA bolts into a thin piece of brass, filed the heads of fflush, and then soft soldered the plate onto p. This avoided needing to drill the plate itself — if I had I would have been asking David Spicer for some clock making screws—I have 16BA and even those we reto object oppear on the



Theplates, assupplied.

faceoftheplate!Abitof redpaintandjobdon e.

Theyarenot immediatelyobviouson thelocomotive,butif younoticethem,they helpwithidentifyingthe otherwisenotwe ll knownvalvegear.

Tomhasagreedtowrite somethingfortheOily Ragwhenhehastime.



Andreadytobefitted

Ourmakingcontact remindedhimofall sortsofhappy memoriesofTME. Indeedheaskedifthe K4locothathisdad hadbegunhad ever beenfinished.Iwas abletosendhimphotos ofBobWilkinsonwith theverymachineat VivaryPark –Tom waswellpleased. It wouldbeniceifTom

andEmmacouldvisitusoneday –Iamsuretheywouldgetawarm welcome.

Etching your own name and number plates

ByRobertOldfield.

IhadthenameandcabsideplatesformyHunsletmadebyDiane Carney,andverynicetheyare,too.Unfortunately,bythetime I decidedthataworksplatewouldlookgoodonthetender,shecould nolongeroffertheservice.Atrawlontheinternetprodu cedan articleonetchingjewellery,andinanother,atechniquefor producingminiaturesteamloconameplates.Printedcircuit boards havebeenproducedusingsimilartechniquesforyears.Thecostof materialsisverylowcomparedtocommercialplates, soitwas worthago.

Firstly, the chemistry. A piece of copper (or brass) exposed to Ferric Chloride solution will be gradually dissolved by it. The rate of etching is affected by temperature and the orientation of the work piece. The bits you don't want dissolved - the shiny bits on the finished plates - need to be covered by something impermeable (the "resist"). The etched bits will usually be filled with paint. The good news is that Ferric Chloride is relatively safetohandle and available at Maplins, or on the internet.



OneoftheHunsletplates.(pic1)

Inthe "olddays", the design was photographed into a presensitised surface. Nowadays, there are alternatives - Iusedacut - vinylmask for the big Hunslet plate, which gives a good, sharp result even with a deepet chon 1/8" plate. However, the technique I used for the much smaller 5" gauge plates uses a special transfer paper which is printed on a laser printer or photocopier, and this is the one I will describe. The transfer paper is known as Press'n' Peel Transfer Sheet. Again, I believe Maplins sellit, but I got mine direct from the maker sin Canadaviae - bay for considerably less.

So, to business. Start with the design -agraphicsorCADcomputer programwillmakelightworkofthis. If the design is simple e(textin abox)awordprocessormaydo. Avoidornatetypefacesifpossible. Scalethedesignupordownandprintitright -wayroundon ordinarypaper. Cutouttheresults and stick them in place on the modelasafinalcheck. Thenmirrorthedesign -t hisisvital -sothe resistwillbetherightwayroundontheetchedplate. If you have a laserprinter, printthemirroredde signstraightontothemattsideof thetransferpaper.Ifnottakeapaperprintandgetitphotocopied ontothetransferpaper .Tip:youdon'tneedtouseawholesheetof transferpaper -justSellotapewhatyouneedinthecorrectplacetoa pieceofp lainpaper.

Prepareasheetofbrasstoagoodsurfacefinishanddegreaseitwith acetoneorsimilar;1/16"thickisaboutrig htfor5"gauge,1/8"for 7.1/4".Leaveagood1/4"border.Tip:allowforafew"spoils" -if youdo,youprobablywon'tneedt hem!Then,withadomesticiron settoaround325degrees/2blobs/polyester,meltthetonertothe transferpaperandtothebra ss.Tip:asheetofplainpaperunderthe

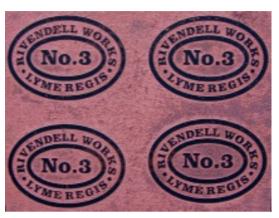


Platereadyforetching(pic2)

ironwillhelpprevent sticking;newspaper underthebrasswill stopanindentationin theironingboardcover andpreventtheireof she-who-must-be-obeyed. Then, when thebrasshasreached irontemperature -2 or 3 minutesorso, lobit into abowlof water and the unwanted paper will miraculously float free.

Ifitdoesn'tagentletugshoulddothetrick. Youwillnowhavea platereadyforetching. (Pic2).

TheFerricChloride solutionmayneeddiluting alittle,dependingonyour source.Filla1kgplastic margarinetubabouthalf wayandraisethe temperaturetoaround bloodheatforafaster reaction.Iusedasmall electricplatewarmer(boot sale,20p).Covertheback ofthebrassplatewith plasticstickytape(soit won'tgetetched),then



Etchedplates(pic3)

fastentheplatetotheundersideofa500gmargarinet ub,resistside downwithPVCinsulatingtape,usingthe1/4"bordersyouleft. Why?youmayask.Well,simplydunkingtheplate atthebottomof thesolutionmakesitdifficulttoretrievetocheckprogress,andthe sludgeaccumulatesonit,potentiallyl eadingtoundercutting.By floatingtheplatethesludgefallsawayandyoucancheckprogress inatrice. "Cooking"timewillb eatleast1hour,possibly4ormore dependingonthejob.Whenyouarehappywiththedepthofetch, justwashtheplateinwa ter.Ifyouthenneedtopopitbackforabit longer,noproblem.(Pic3).

Scrubtheresistofftheplatewithwirewool. You willthenhavean etchedplate (Pic4) Note that the etched portions have a slightly mottled surface, and that the raised bits a recopper -coloured. The copperisa (hopefully) thin layer of semi -etched friable material caused by the slight porosity of the toner; remove it back to shiny metal with emery cloth.

If you use a viny lmask method, you'll have clean brass from the start. (Pic1).

Thecuttingandfinishingis uptoyou.Icut theindividual platesoutwithabandsawand finishedtosizewithalinisher (OKabeltsanderclampedon itssidetothebench).Ifyou areusingscrewstofixthe plates, now is the time to drill theholes.Tip:includethe fixingholesinthedesignas fullstops -thenyou'llknow wheretodrillaftertheplates areetched. Then etch prime thewholefront -don'tworry



Plateswiththeresistremoved(pic4)

aboutmaskingoff -andspraypaintasrequired. Tip:letthepaint drythoroughly! The final stage is rubbing the excess paint away with emery to leave the shiny brass. Fit and enjoy. (Pic 5).



Robert's Simplex with the plates in place. (pic 5)

" ON THE FOOTPLATE"

ByRayRolt

Onedaymyfathersaidcasually, "I'vearrangedafootplatetripfor younextSaturday. WehavetogoovertoHighbridgeStatio nfora triponabranchline!" Iwas 14 atthetime and hadhadan interestin steamlocomotives since Iwas 6!

Howhadhemana gedtoarrangethis? Hehadnorailway connections or involvementinengineering, that might have indirectly helped in this. He had taken upbeekeeping and worked in the Apiaryat' Rothamstead Experimental Research Station', involved in work on pollination , before taking up the Post of "County Beekeeping Instructor" for Somerset, how could this have helped? The linkwast he fact that at many railway menapparently kept bees!

Thestartingpointpuzzledme,asHighbridgewasjustastationon theGreatWesternl inetoBristol,sowherewasthebranchline?I wasvaguelyawareofalinethatcrossedthemainroadthrough Highbridge,thata ppearedtoservesidingstoawharfontheriver Brue,butassumedthatthisjustconnectedtothemainline.

OntheSaturday,w edulyarrivedatthemainHighbridgeStation andpurchasedadayreturntickettoEvercreechJunction,ashad beeninstructed, andongoingontotheplatformcrossedthemainline ontheconcretefootbridge,followingthesigntoHighbridgeEast Station!

Nowallwasrevealed!Therewereinfacttwostations,withthe

tracksatrightangles,formingalevelcrossing,withasingletrack crossingthedoubletrackmainlineandleadingtotheroad crossing inHighbridgealreadyreferredto.Thistrackinfactextended beyondthewharfsidingsandcontinuedtoBurnhamonSe a,ending ontheseafront.Therewerecurvedconnectionsatthecrossingto boththemainlinetracks,allcontrolledbythemain linesignalbox. Railcrossingsonthelevelbetweenindependentrailwayswasquite rareinthiscountry.

ThelinethatIwas infactgoingtotravelonwastheSomerset& DorsetJointRailway,formedbythelinkingoftheSomersetCentral andDorsetCen tralRailwayswhichinturnlinkedwithanew railwayrunningfromBathtoBournemouthWest,whichformedthe mainlinewithlink stotheoldMidlandRailway,usingtheirBath GreenParkTerminus,inthenorth,andtheLondon&South WesternRailwayinthe south. The section of line that I was going to travelonwasthebranchlinethatconnectedtothemainlineat EvercreechJunctio n.Thefinalname,theS&DJR,cameabout whentheseexpansionsfailedtocreatethetrafficanticipated and the railwaywasi ointlyleasedtotheMidlandandL.S.W.Railways, withthestockjointlysuppliedbythetwocompanies, the locomotives by the Midland and the rest by the L.S.W.R.. After the 1923GroupingtheybecametheL.M.S.andS.R., finally becoming the Midland and Southern Regions of British Railways.

The 'Highbridgebranch' was the idealline for 'unofficial' driver training, due to it's moteness from large centres of population and light passenger traffic. Many happy summer Saturdays were spent on the line during the next six years.

Whenwearrivedatthestation, which had two through lines which converged into one for the crossing an dabay line between two platforms from which trains to Evercreech Junction usually started, we met Ron Andrews who was the driv er. Being abeekeeper meant

thathelearnedfrommyfatherofmykeeninterestinsteam locomotives,hencetheinvitation. Whenherealisedthatthiswas morethanjusta 'novelty' experienceforme, hetreatedmeinthe samewayashewouldafiremantraining as a driver.



AyoungRayonthefootplate.

Ronwas 'Somersetbred' and followed the family tradition of working on the railway, his fatherworking in the Booking Office and abrot her also working on the footplate. He had a 'jovial' disposition, In eversawhim angry, and he was well known to railway en thus i asts, whoused to give himprints of the photosthey had taken, when they returned. It was thanks to this that Inowhave two photosof myself on the footplate, one being on my first trip we aring an oversized pair of overall swith the fireman's capon,

whichhehadputonmyhead. They gave him the "nickname" of "Chummy" Andrews, and he is featured on Pages 106, 127 and 128 in "Heart of the Somerset & Dorset Railway" by Alan Hammond.

ForthefirstfewtripsIjustenjoyedtherideandobservedallthe aspectsoffiringanddrivingthelocomotiveandwasencouragedto unity getthefeelofhandlingtheregulatorwhenasuitableopport presenteditself. Then began these rious tuition. The standard procedureforfiremengainingexperiencewasforthedriver totake overhisduties, when conditions allowed, leaving the fireman to familiarisehimselfwithhandlingtheregulator, brak reverser, used to vary the valvetra velto give different amounts of "cut-off" and controladmission of steaminto thecylinders, all underthedriver's instruction. This would be supplemented by attending'mutualimprovement'classestolear nthetheoryand technicalaspects, and the "Rule Book" When the driver was satisfiedthathewascompetent, then he could take thenecessary examinationand, if successful, would become a "Passed Fireman". rs,hecouldbe Thismeantthatiftherewasashortageofdrive rosteredfordutyasadriver, probablyonshunting orgoods duties. Whenavacancyoccurredonthe "ShedRoster "foradriverhecould applyforthepost. As the recould be along delay at his present Depot, hewas free to apply for vacance iesthatmayariseatother sheds.

Basedonmypersonalexperiences, Ishall cover the seunder the following headings: -

[&]quot;The ArtofStarting" -gettingthetrainonthemove.

[&]quot;The Art of Stopping!" - whilst failure to get the trainst arted is embarrassing, failure to stopic ould be a disaster!

[&]quot;LearningThe'Road" -thiscoversknowingwhatisahead, where the signals are and where to stop.

Steam Lawnmower — some detailed improvements

ByStevenSchlemer

I'mmanagingNORMAN's firemuch betternowusing a combination of beans and larger, 40 mm coal, and cankeep the fire in and main tain aworking steampressure for sometime; she cuts the grass very nicely and keeps Janeamused when I execute full speed turn sattheen do feach swath. The law nneeds to be hard and flat and the grass needs to be dry.

I'vealsorecently madesome detailed improvements.If youlookbackat thepicturesin OilyRagissue 120,you'llseea nasty,white plasticbox jammedbet ween thedogclutch leverstocatchthe oilycondensate



Viewedfromtheleftthecylinderdraincollector pipeandthegalvanisedbucket

from the cylinder drains. This has been practical but not inkeeping with the rest of the machine.

Afriendlyplumbermademeacollectorfrom 28 mmpipe, a 90 degreebendandreducers down to 15 mm. The larger end fits against the cock pit drains, where they are brought together at the

singledraincockandthesmallerenddrainsintoanicelittle galvanisedbucketboughtfromafloristsupplier. Ihavethese bucketsin 160,90 and 60 mm diameters. The largerend of the collector has an aperture so that I can see the condition of the wa ter or steamex hausted by the draincock. The assembly is painted green to blend into the chassis and the aperture is red to provide some contrast to view the exhaust. As with the rest of the machine I used etching primer, two under coats and two top coats.

I'vealsoaddedsomesteampipelagging. Thereisabout 600 mmof steampipeinthesmokebox of NORMAN's vertical boiler betwe en the safety valveand the regulator. This must dry the steam a little. Then after the regulator, outside the boiler, there is another 600 mm of 10 mms team delivery pipe to the valve chest; this must lose temperature and pressure and wet the steam. I want ed to lag this section.



Viewedfromabove, the blower pipe, steam delivery pipe and exhaust pipe inside the smoke box.

Icouldn'tfindanysuitable materialinmodel engineeringsuppliersand lookingonamodel engineeringforumIsawthat painted,domestic,cotton stringwasrecommended. ViaBill,Isoughtadviceofa fewTMEmemberswho endorsedthistreatment. Thankyou,gentlemanfor youradvice.Ihavenow

appliedittothesteamdeliverypipe,toashortexternalse ctionof exhaustpipe,toashortsectionoftheblowerpipebeforeitenters thesmokeboxandtothesteampipetothewhistle .

ThestringIusedwasgoodquality,smooth,100%cotton,justover 2mmindiameter.

It'seasyto
estimatequite
accuratelythe
lengthrequired
foreach
section.
It'seasierto
removethepipe
andwindonthe
stringby
rotatingthe
pipe,keeping
thestring
tensionedwith



Viewedfromtheright, the steam delivery pipe and exhaust pipelagged as described.

yourfoot. Startbylaying about 20 mmofstring along the pipe and trapping it with the first tenturns. Finish with three half hitches, effectively adouble clove hitch, all pulled really tight.

Ifyoucan'tremovethepipe, you'llneed to make a shuttle to hold the full required length of string and passitround thep ipeeach turn. I used a curtain rail bracket from the scrap box that happened to have a convenient jammer on the end. A piece for well with a saw

cutatoneendtojamthe stringwoulddoaswell. It'sreallyimportanttojam thestringotherwiseyou cangetinarealmess.

ThelongestrunofpipeI didneededover300turns. Ihadblack,high temperaturepaintbut thermodynamically,white wouldbebetter.



Ashuttleforwindingstringonpipes stillattachedtotheengine

Ichoseglossradiatorpaintandhaveappliedtwocoats.

Theresultcertainlylooksthepart,whetheritmakesmuch, noticeabledifferenceinperformance,weshallsee.

Improved lighting on a milling machine

ByRobertDawes

BillEdmondsonhasaskedmeseveraltimesifIwouldwrite somethingforTheOilyRagsoheregoes.Ihopeyoumayfindit interesting.

MyageiscreepinguponmeandforsometimenowIhavefound thatitisbecomingharderandhardertoseewhatI havesocarefully markedout.

TohelpmewiththisIboughttheMicroscopekitthatHemingway does.Forthosewhoarenotacqu aintedwiththisdeviceitconsistsof amicroscopeonanumbertwoMorsetaperwhichfitsintoMorse tapersocketonamachine, amillingmachineinmycase.Inside thereisaprismsothattheviewinglensisatrightanglestotheaxis ofthemachine,s oIcanstandinfrontofthemillandifthe microscopeisthecorrectdistancefromthework,theworkwillbe infocusandI canlookdownontheworkandseeallthose accuratelyscribedlines.

Thereisareticule, apiece of glass with a crossmarke donit and it is set in the microscopes othat if a criss cross on the work coincides

withit, that criss cross is in the centre of them achine.

All this worked outvery well. The only trouble was that I could only see one of the criss cross lines on the work. One was lovely and shiny and easy to see. The other one of tenappeared to be black and was rather difficult to find.



ThemicroscopeandLEDlightsonmymachine.

Ihaveanelderlyfriendwhoknowsallaboutscientificthingsandhe vaguelysuggested that "polarisedlight" mightbetheanswer. When questionedfurtheronthematterhethoughtthatitmightbepossible touseth elensfromspecialsunglassesbutseemedtobedisinclined tobemorespecific. Sincethisdidn't seem to be particularly helpful decided to thinkabout the problem formy self. Irealised that a line scribed with a scriber consists of a very shallow triangular groove.

Irememberedfromschoolphysicsthatwhenarayoflightis reflectedfromashinysurface, the angle of incidence equals the angleofreflection.So,ifthegrooveisparalleltotheT -slotsonmy MillingMachine, lightfrom a source atroughly right a nglestothat linewillbemostlyreflectedupwardsandintothemicroscope above. Similarly, in the case of a linear right ang previouslymentionedline, which forms the criss cross that I am locating, light that comes to it from a source point inggeneral directionastheT -slotswillalsobereflectedintothemicroscope.I thereforethoughtthattwolightsmightbeb etterthanoneespecially iftheyaresetroughlyatrightanglestooneanother. At about the stherewasatwopartarticleinME timeIwasthinkingaboutallthi aboutmachinelightsusingLEDsandaflexiblestalkmadefrom locline.Thisseemedtomet obejustwhatIneededsoImadetwoof theselightstotrythemout.

IarrangethemsothatIcouldsettheminthemannerde scribed aboveanditcertainlydoesseemtomakeabigdifference.I'mnot certainthattheyprovethetheoryexplainedaboveb uttheydo enablemetoseemycriss -crosses.Holesdrilledusingthis equipment,ingeneralseemtocomeintherightplace.I talsohelps iftheworkpiecehasareasonablefinish.Iftherearefilemarksor otherscratchesallovertheworkpiecethescr ibedlinescannotbe easilydistinguished.

IwassopleasedwiththeselightsthatafterIhadmadethetwofor themillingmachineImadeafurtherfour.Twoofthesehavebeen fittedtomytoolandcuttergrinderandanotheronetomybandsaw. Iamp lanningtomakesomemoretofittosomeofmyother machines.

InconclusionIwouldliketosayhowgratefulIamtoRogerVan e, theauthoroftheMachineLightsarticleinME.Hisdesigniseasyto understandasarehishowtodoitinstructions.Heals otellsyou wheretogetallthebitsandpieces.

OF SHIPS AND THINGS

BYFIREMANM.N.RETIRED

We left Montreal and sailed up the St Lawrence about 6 hours and stopped at Trois Rivieres (three rivers) to load wood pulp for making newsprint. Number one hold was completely filled with the stuff and did it everstink, imagine the smell of rotten cabbag esthen triple it and you have some idea of what it was like, even with the hatch sealed it was still there all the time. There was the usual deck cargo of sawn timber and then we were off.

JustliketheBeavercovethedeckswereawashnearlyalltheway home.WegotintoLondonandpaidoffonthe6 thJune.

Iwasofferedajobrunningthedonkeyboilerondays, whilethe shipwa sinportbutIwantedtobeasfarawayaspossiblewhen numberoneholdwasopened, so Iwenthome.

When I gothome Mumwasn' therusual bubbly selfand I mustsay I was a bit concerned. Two of hers is ters were ill and she was a bit worried about that a ndal sogrand dad whousually lived with uswas in a badway, so I said I would stick around for a while. I didn't relish the ide a of being round all dayso I would getajo bof some sort to get me out.

GilletteRazorBladeswantedaboilermanatthefact oryonthe GreatWestRoadatIsleworthsooffIwentforaninterview,atleast itwouldkeepstillandnotjumparound.

Theb oilerhousewasquitemodernwithtwosmalloilfiredboilers, butinsteadofproducingsteamitwashigh -pressurehotwater.

Thisseemedstrangebutbypumpingthewateruptoaround Seventy-fivepoundspersquareinchthetemperaturewentupto threeh undreddegrees. Thiswasthencirculatedroundtheworksfor heatingandcertainprocesses.

Theworksmanagertookmeonatour ofthefactory,itwas fascinatingtosee. Coilsofhighcarbonsteelstrippassingthrough flatteningrolls, then the slotwas punched in the centre and the edges were ground to shape, then through a series of furnaces for hardening and tempering before being finally sharpened and packed. The manageral so said they were working on using stainless steel to combatther ust problem.

Oneroomweenteredhadanelaborateventilationsystem. There werehugetanksof Carbon Tetrachlorideheated byhotwaterco ils, this was for degreasing the final product. Strangely to methere were No Smoking signs everywhere. As Carbon Tetisnon fla mmable I asked why was this? As the smoker draws on the cigar ettethe fumes pass through the lighted tip and produces Phosgeneg as, which then enters the lung swith the same devastating effect as in the trenches during World War One, (that's the end of the science lesson).

Afterwhathadbeenaninterestingmorningthemanagersaidwe havethreeotherchapstoseeandwewilllet youknowtheoutcome.

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Telephone—Chard01460221217

The Soci etyisvery grateful for their sponsorship.

Vivary Park Running Days

June	Sunday19th		14:00-17:00
July	Sunday3rd		14:00-17:00
·	Sunday17th		14:00-17:00
August	Friday5th& Saturd	av6th	FlowerShow
8	11:00-18:00	v	(tobeconfirmed)
	Sunday7th		14:00-17:00
	Sunday21st		14:00-17:00
	•	-17:00	BankHoliday
September	Sunday4th		14:00-17:00
•	Sunday18th		14:00-17:00
October	Sunday2nd		14:00-17:00
	Sunday16th		14:00-17:00
December	Sunday11th12:00	-15:00	SantaSpecial

Creech Running Days

June	Sunday26th	14:00-17:00
July	Saturday9th12:00 -17:00 Saturday23rd10:00 -17:00	PartyinthePark TMEOpen Day

August Sunday14th 14:00-17:00 Monday29th14:00 -17:00 **BankHoliday** September Sunday 11th 14:00-17:00 Sunday25th 14:00-17:00 October Sunday9th 14:00-17:00 Sunday23rd 14:00-17:00 **December Sunday18th12** :00 15:00 **SantaSpecial**

Meetings Programme

TuesdayJune14th Clublec2016.VivaryPark6.30pm. Ifyouwouldliketoparticipate, pleasecontactDavidHartlan d TuesdayJune21st VisittoIsleAbbotsrailway TuesdayJuly5th. SupacatDunkeswell6PM -detailtofollow SaturdayJ uly9th 'PartyinthePark' -CreechPublic RunningExtendedrunningtimes TuesdayJuly19th **AneveningatVivaryPark** SaturdayJuly23rd TME70thCelebrationOpenDay CreechPublicRunning **Extendedrunningtimes**

TuesdayAugust2nd BarbecueatCreechSt.Michael

TuesdayAugust16th VisitShuteRailway

TuesdaySeptember6th MarkDavis -hiswideranging

modelengineeringandcraftskills

TuesdaySeptember20th Voyage43 -theworkofaBritishsea

goingengineer -BobBramson

TuesdayOctober4th TheHarrisonRASRegulator

update -David Spicer

TuesdayOctober 18th LymeRegisBoatBuilding

Academy - Yvonne Green

TuesdayNovember1st AuctionNight

TuesdayNovember15th QuizNigh t –DickWhittington

TuesdayDecember6th SlideShow&Talk -PeterTriggs

Subscriptions

OrdinaryMembershipis£30withafurther£5forspouseor partner.Familymembership£55JuniorMembership£5

MembershipSecretarycontactdetails —seeinsidefrontcover. Ifrenewingbypost,pleaseencloseS.A.E.forMembershipCard

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Bogieaxleboxes



Tenderaxleboxes



Thewaterscoop

Parts for Chris Or chard's very fine 5 "gauge GWR Bull dog"