

As you are probably aware, due to the outbreak of Covid-19 all meetings of the Dublin Woodturners Chapter have been cancelled until further notice.

Please check both your email and the Chapter website (http://www.dublinwoodturners.com) regularly for updates.

The Online Competition Is Back.

The monthly competition will resume again in October and will again be held online.

This will be an open competition with all entrants submitting a photograph of their piece for judging. So get out to the workshop and make something.

Points awarded will NOT count towards the annual awards however all items entered WILL be eligible to be entered in the normal monthly competitions when they resume.

Send a photo of your work by email to Mark Daly at mark@eninserv.com by Saturday 3rd of October. Include the category (Advanced, Experienced, Beginners or Artistic). Also include something in the photo to show scale (possibly a ruler or pen).



The virrus Continues

A Note From Our Chairman

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enjoying the good weather now are going to do a promotion for that we are in the middle of our chapter. It will be 15% or September. The evening is closing 20% but we'll have to wait until in very quickly so I hope most of after us are able to get out to the shed Details will be included in the and get back to do a bit of next newsletter. turning.

I know that for a while after I got first Saturday in October. I hope the news that I was not to go near you get turning for that. any of my schools as my doc said that it would be too dangerous, I Please give a little thought for the was not happy and I was down three members who have passed for a while. But then turning is a away since we stopped meeting. bug and it wasn't too long before Frank McCartney, John Owens I was out in the shed turning and Joe Fitzgerald. away, and now the only problem I have is "what day it is" but that Let's all stay safe until we are back will come back to me soon.

If there is something that you need or want I have been talking Johh Doran

Hi everyone I hope you are all to The Carpentry Store and they the current lockdown.

The competition are back for the

meeting again.

Photographing Your Work

Given the unfortunate likelihood Journal, I had to reject many that we will need to continue photos that were sent work photographing our participate in chapter competitions would not look for the foreseeable future, it was magazine. Quite often these were suggested that someone write a few photos of wonderful work that words of advice on getting our really deserved to be shown off. pieces to look their best. In my Generally, the problem lay in one "official capacity as

Photographer", a title that I didn't even know existed, Brendan asked me to take on the task. Therein lay the first problem. I sort of fell into the role of taking photos of the competition pieces after Hugh Flynn who had done such a wonderful job for many years, passed away.

Having a half decent camera and a light box allows me to hide my My suggestions will concentrate on shortcomings photographic turning. But there is no substitute of photographs of the same teaand who am I to offer advice on competition a good few years ago. I this.

Then it suddenly occurred to me that I was thinking about the wrong problem. Photographing our work in the current climate is not about settings on SLR cameras and using light boxes. It's about doing the best we can with the resources we already have. So, I began thinking about simple steps we can take when armed with just a Figure 1. Hugh Flynn's photo of the candle smartphone or basic holder. standard camera. With that in mind, here are

some suggestions of the pitfalls Without even considering Hugh's and potential solutions that I have superior photographic encountered. I have tried to avoid would not be possible to replicate being overly technical.

Three Challenges

In my time editing the IWG for in to publication, because I knew they well the in Chapter or more of these areas...



in these areas with the aim of much the way that 60 grit can cover avoiding or at least minimising the up some of the limitations in my problems. I have taken a number for knowledge, skill and practice light holder that I put into a photography. Consequently, I have chose this piece as I have a photo dithered about how to approach of it that Hugh Flynn took at the time that will serve as the reference as to where I should be aiming.



skills this photo with the equipment I

have used. But that is not the point, my photos in this article were taken with an iphone and without any light box etc.

Background

The background is important in any photo and is so often overlooked. Looking at photos that I've taken, I often find myself saying things like "why didn't it occur to me that someone would look as if they have a tree growing out of their head when I took this." I think these problems have a lot to do with the human brain's ability to process and filter the images our eyes send it. In the same way when I am taking a photo of something, I am perhaps concentrating so much on the objects in the foreground that, my mind pays little attention to the background. I also think that our ability to process 3D perspective by using our two eyes and by moving our heads slightly mean that at the time of framing a photo our brain can seamlessly separate foreground items from background items. This becomes much harder once the image is frozen into a 2Dphotograph.



Figure 2. The background in this photo takes the viewers' concentration away from the tealight holder.

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Of course, in photographing our darker colour gives much improved It is generally far better to take the turnings, we are trying to show off results. So, do not be afraid to try a photo from slightly further away the items and that is not helped if background of a different colour the are other items in the photo to if you have it. distract the viewer. I would say that unless there is a reason for including other items, e.g. for perspective, it is best to photograph just the item by itself.

Photographing the item in front of some sort of uniformly plain background helps to both remove other items from the background Figure 4 Don't be afraid to try different and provide a contrast to the item itself so that its shape and edges are clearly defined.

A plain light-coloured sheet or Framing the picture can be a bath towel will often be perfect for challenge particularly when you this job. If the item is reasonably want a smaller turning to fill a large Figure 6 Take the photo from further back small, the sheet could be draped portion of the image or ensure over а chair. Larger obviously provide more of a behind the item and across the While on the subject of framing challenge. Gently curving the sheet image. from horizontal under the item to vertical behind it and avoiding The temptation is often to move folds and creases will help give a background where the shadow and light is graduated.



Figure 3. A sheet draped over a chair can provide a decent background.

I have found that sometimes a particular piece will not photograph well in front of a Figure 5 Photographing too close can cause light-coloured sheet and trying a distortion and focusing problems.



colour backgrounds.

Framing

items that the background fully fits

the camera closer to the object, but at very close range, the image will suffer from curvature and a loss of from an issue with focus, because of the big difference in the relative distance between the parts of the Lighting object that are closest and furthest I find that when photographing the same time.



and crop away the unwanted parts of the image afterwards. Most phones will have an option to provide simple editing of a photo including cropping (and zooming). The computer software that comes with any camera will provide similar options.



and crop the image after.

the image, do not forget about orientation of the piece and the camera angle. I often find that even a simple bowl of platter can look quite different in а photograph depending on how the perspective. It will also likely suffer grain in oriented in respect of the camera.

away from the camera. The camera pieces, there is no substitute for will not be able to focus on both at bright, diffuse, natural daylight. At Willington Scout Hall, it would be easier far to get better photographic results by taking car park to pieces to the photograph them. For a range of reasons that is not practical and so a light box and lamps are used to try to overcome the issues of light.

> The light being bright but diffuse is important. Lighting from a point source such as a lamp or the sun causes two problems:

Firstly, work the smooth or glossy finish.

defined lines tend to be thrown by the object. Whilst our eyes are quite good at compensating for this, cameras are not. The exposure level tends to either be too high or too low for the parts of the photo that are or are not in shadow. Parts of the item are too dark and lost to the shadow and/or other parts are too light and washed out.



Figure 7 This photo was taken outside in bright sunlight. The shadow can make it difficult to see the edges of the piece.

Thus, the best way to photograph a piece is in bright daylight on a cloudy day. If the photo must be taken indoors and artificial light be used, it is difficult to get good results without a light box and a form of diffuse bright light. Using the flash can give variable results. It is a point light source after all and unless you have a flash gun that can be positioned separately, it will almost certainly be directly reflected back at the camera.

As outlined earlier, the other challenge with low lighting is longer exposure leading to the next challenge....

Camera Movement

Obtaining a crisp clear photograph image cause by camera movement.

being requires that the image being shot Using a tripod will prevent camera is focussed onto film.

For this to happen both the image being captured and the camera itself must be still. Movement of either will result in a degree of fuzziness or blur in the film. This is a particular problem for sports photography where the difficulty of capturing fast moving items is compensated for by capturing images at extremely short exposure.

Fortunately, we do not need to be photographing our turned items moving at high speed, if at all. However, keeping the camera still can be another matter. Moving the camera only slightly can cause the image to shift considerably. When Another trick with phones or top of the list of from guaranteed.



Figure 8 An example of an out of focus

photographed will reflect the point is focused through the lens into the movement but is not always light source, particularly if it has a same place for the duration of the practical. If I need to hold my exposure. This applies to both phone or camera, I find that it digital photography where the helps to pivot my elbows on the Secondly shadows with crisply image is focused on to a sensor or floor or a table and, if I cannot do conventional photography where it that bring them in against my body.

> The other thing is to minimise exposure time, by taking the photograph in the best possible light. On many cameras there are setting for sports photography which also shorten the exposure time.



Figure 9 Less Light = Longer Exposure = More Blur.

it comes to mobile phone design, cameras that have the feature is to competing requirements mean that take a photoburst. This is where being able to easily hold the thing several photos are taken very steady while pointing it and quickly in succession. Often the pushing the button are not at the camera will be moving less in some design photographs than others when I considerations. Holding a camera do this. I can then go through the still can be easier, but success is far burst of photos to select the best one.

Try and Try Again

You can see from the few photos I have taken, that lighting and make background а huge difference to the outcome. Modern technology allows us to take a photo, check how it looks and reshoot repeatedly at little cost other than time. Before hitting the send button, take a little time looking at the entire photo carefully. Zoom in to check that experiment and see what works for other's company for the moment, detail is clear and crisp. If you. You may find that you like the but we can carry on sharing our something is not right, changing one small element, repeat things. Even if you are reasonably things and sending in the photos. happy with your first photo, still We may not be able to enjoy each

try 4th or 5th attempt better.

the process and see it if improves Most importantly keep making Rich Varney

ideas, inspirations and creations.

In Memory Of

John Owens RIP.

It is with great sadness that we Joe passed away quite recently and Frank passed away unexpectedly learn of the death of John Owens was responsible for the very good RIP.

Our condolences to his wife Carmel and her son and daughter. He was a musician and was John passed away on the 11th director of music at Burlington March this year in Mount Talbot Hotel. He was also a church nursing home, after a long illness.

John was an accomplished wood turner. He was a regular at our Our Condolences to his wife Mary meetings in Willington. He was a and sons Liam and Thomas. very reserved and quite man.

May he rest in peace.

Joe Fitzgerald RIP.

sound system our chapter have today.

organist and demonstrated at Nordell Crane in Cathel BurghSt.

May he rest in peace.

Frank McCarthy RIP.

recently. He was a member of our Chapter since 1987. Apart from woodturning he had many other interests, а lifelong GAA supporter, a keen photographer, a talented water colour painter and a member of CYM Bowling Club.

He is greatly missed by his wife Betty, his children John, Brianne, Lisa and Michael along with his many grandchildren to which we offer our deepest sympathy.

May he rest in peace.

Who were the winners in October 2010. Recognise any? Answer on page 6.



Tony Hartney came accross this tree sculpture in his local park recently.

Do you know of any others?





Online Charity Auction

With no demonstrations, craft fairs or competitions since March, the Executive Committee have decided to organise an online charity auction with all proceeds going to the Irish Cancer Society (Republic of Ireland) and the MacMillian Trust (Northern Ireland).

We are asking all members to make and donate pieces for the auction. The only criteria is that they must be well made and finished with no defects unless they are incorporated in the design. Also due to electrical regulations, we cannot accept lamps.

All items will be photographed, a description and minimum price added and then displayed on an auction website. We are currently negotiating with a couple of potential sites.

We are aiming to have the auction in the last week of November, in time for the Christmas market.

Arrangements will be made for the collection of items towards the end of October.

So get out to the workshop and make something for this deserving cause.



The Thorns by John O Neill



Whitethorn and blackthorn are the arrived it became the Queen of the two varieties of main Ireland.

Whitethorn is what we commonly refer to as Hawthorn but Hawthorn is just one variety of Whitethorn. The berries of the tree are called haws. The term haw is an old English name for a hedge, in anglo saxon 'haguthorn' meant a hedge with thorns, over the centuries this became hawthorn. This common bush provides food for many birds and small animals and the flowers are nectar rich and support many types of insects. The haws are a rich source of winter food for birds.

Hawthorn was highly regarded in and is part of the rose family. The Celtic Folklore. It was a gateway to Lonely Bush and when Christians

the May. One risk in using it for Crataegus family that we see in turning is that one might incur the wrath of the fairie. In Serbia it was prized as the best wood to make stakes for impaling vampires!

> The blackthorn is part of a different plant family, Rosaceae



fruit is called sloe and is used for the fairie world and was used in making sloe gin. We Irish used the marriage and birth ceremonies. It wood to make walking sticks and was called the Fairie Tree and the shillelaghs. The most common use now is still in the making of

walking sticks.

In Celtic mythology Blackthorn had a sinister reputation. It was known as Straif in ancient Ireland and is thought to be the origin of the word strife. It was associated with dark side of the year and was guarded by unfriendly fairies. Witches were said to use blackthorn wands. If you want to cut some for turning then the safest time is on a moonlight night when the guardians are out doing their moon dance!

Hawthorn can be used for woodturning. When cut it has a tendency to split and it can be wet turned or sealed and cured over a period of at least one year. The thorns should not be cut off as this will accelerate drying and result in cracking. The wood should be sealed well before drying. The wet turnning method can also be used for hawthorn.

Note, if cut from hedging watch out for nails, barbed wire and staples. The tree nevers gets very big so the largest item to expect is a small bowl. Spindle turning is probably the best option although the root ball plus the lower trunk part can make interesting lamps. A guy called Matt Jordan has a good video on Youtube where he turns a hawthorn root and trunk into a lamp. He uses a lot of resin and comes up with a top class piece. (https://www.youtube.com/watch ?v=UTplpIjc33k) Blackthorn can be treated in same way, seasoned or wet wood can be used.

John O Neill

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UNDERVOLTAGE - BROWNOUTS AND ASSOCIATED PROBLEMS. HOW THEY CAN AFFECT & DAMAGE MOTORS

VOLTAGE SUPPLY TO YOUR WORKSHOP:-

UNDERVOLTAGE -BROWNOUTS AND ASSOCIATED PROBLEMS.

HOW THEY CAN AFFECT & DAMAGE MOTORS

Undervoltage is condition where (incoming) voltage the applied drops below 90% of the rated voltage. condition This is commonly called a Brownout.



Older readers will remember the days when late at night (around 11-30PM), the light bulbs would dim slightly, and the light from bulbs looked browner. This was caused by the ESB dropping the voltage overnight to something like 218 volts. This browning effect is commonly called a Brownout when the voltage falls below 207 volts.

This condition occurs when:-

1) A facility / workshop or either you or a near neighbour asks for more power than the local supply can deliver (through a local transformer). But the problem is not always caused by the electricity supplier. A neighbour could have installed new equipment and

which has been available up to that $(0.9 \ge 0.81)$. time.

2) Brief low voltage conditions torque would be 64% (0.8 x 0.8 = when a very large motor or load is 0.64). At this level overload reaches started up.

3) When power is shorted to ground / earth (a fault condition). A good reason to have an ELCB (earth leakage circuit breaker) fitted.

4) If 2 power cables are shorted together(on a 3 phase supply).

5) Loose cable connections.

are unhealthy for electric motors, we have to look at the relationship between motor torque and applied voltage.

Electric motor torque changes as the square of the voltage supplied. А 10% increase in voltage (230VAC to 253VAC) will boost torque by 21% (1.1 x 1.1 = 1.21).

Similarly at 90%, a 10% decrease (230VAC to 207VAC), a motor will

increased the load above that suffer a 19% reduction in torque

At 20% below rated voltage, 156% and causes catastrophic failure.

This is also a major reason why we cannot put speed controls on single phase induction motors, commonly used on Woodturning Lathes and Saws. Voltage control will cause motor failures. Phase control is useless. In either case, when you reduce voltage, torque drops off at a huge rate.

To illustrate why low voltage levels If torque decreases below the torque required by the load, the motor will stall. At this point the only output from a motor is HEAT. A 100 Horse Power motor, stalled or stuck becomes a 500kW resistive heater.

> Also if a centrifugal switch is fitted and drops out, and you run the motor for a period on the starter winding, it will rapidly overheat and burn out.



Excessive heat is a problem for motors:-

Insulation life expectancy in the windings is halved for every 10 degree C increase in temperature. At the same time the temperature rises in the windings by 10C to 15C for each 10% drop in voltage. The insulation life of a motor that operates on 10% undervoltage, will decrease winding insulation to between 50% and 75% of its life expectancy.

Undervoltage events which last long enough to increase winding irrevocable temperature, cause damage to winding insulation and unexpected failures later. А sustained low-voltage event can cause the motor to fail during the event. The only safe motor during low-voltage event is a a long motor which is switched off. An undervoltage event longer than one minute is considered а problem.

Devices can be introduced to for undervoltage monitor (brownout) events, but in our workshops is not really practical to date. I am looking into this more

used to knock out power to the starting to fail. motor being used. I will come back with a future article on this project. I will write an article in the future In industry PLC systems can be on these PTC thermistors and any used to monitor & control motors other methods which could help in when brownouts occur, but would motor protection. prove too expensive for our applications.

If for some reason you do need to If you don't have an ELCB fitted have a motor re-wound, I would in your workshop, you should strongly suggest the fitting of PTC seriously consider having one thermistors(positive tempererature fitted. This should be done by a co-efficient) in the windings. These compotent professional. are a temperature sensor which looks like a little bead, with 2 wires If you do any work on cable coming from it. These are wired in connections, series with each part of the motor connections winding coils with the sensor connected, or have it done or embedded within the winding. As a checked by a professional. winding starts to heat up and reaches the thermistor set point If you need to get a motor retemperature, the sensors resistance wound, ask for PTC thermistors to rises dramatically and lowers the be fitted. They are relatively cheap current flow allowed through the when compared to another remotor windings. The motor will wind cost. slow down and is protected from further overheating. When the I will come back with further temperature falls, the thermistors details on my "Brownout Monitor" allow the flow of current again, project when it is more complete. but the motor should be checked to see if there is a fault. It could Graham Brislane

deeply, and have built a "Brownout also have been caused if you had Monitor". It works with both too high a mechanical load on the visual & audible alarms. It could be motor. Also bearings could be

Summary:-

ensure all correctly reare

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