BZLNW 004438 WEST COAST ARTORAFT

BC ROCKS and GEMSTONES

THE FASTEST GROWING hobby in British Columbia right now is "rockhounding". With an estimated 2000 enthusiasts (nearly 1000 are registered in 19 clubs forming the Lapidary Rock and Mineral Society of BC, and there are several clubs which do not belong to this society as well as a number of hobbyists who do not belong to any club) rockhounding is probably the biggest organized hobby in the province already, and there is no sign of any decline in its phenomenal growth over the past few years. Indeed, a record crowd of 8000 visitors is expected at this year's bigger-than-ever Rock & Gem Show to be held at the PNE grounds on October 7-9.

It is doubtful if any other hobby embraces such a wide range of activities in the pursuit of a single objective, the collecting of attractive natural rock materials and gemstones. Rockhunting may range from strenuous cliff-hanging exploration to the peaceful sifting of beach and river stones.

Rockhounds with a collector's urge may concentrate on obtaining fine samples of as many different types of rock as possible (there are thousands) or perhaps building a complete collection of one particular type. Like other fields of rockhounding, this leads inevitably to a thorough study of geology, mineralogy and geography, a pursuit which can become a hobby in itself.

Workshop Hobby

An entirely different type of activity is provided by the work of cutting, shaping and polishing the choice pieces of collected stone. This is a workshop project with the skills, pleasures and exciting rewards of a challenging craft. It is here that the rockhound discovers a rare beauty that lies hidden in the rough stones and reveals it in polished, flat specimens, bookends, paperweights or delicate and beautiful gemsstone shapes for jewelry mounting

Unexpectedly, women are just as enthusiastic about this workshop phase of lapidary work. Frequently it is a family interest, with father, mother, boys and girls taking turns at producing the polished gemstones.

Jewelry-Making

Most rockhounds mount the gemstones in manufactured settings which are available through any of the lapidary stores now catering to this hobby. A growing number, however, are learn ing to fashion their own gold and silver jewelry. Classes in this artcraft are given by the UBC Extension Department, city night schools and at least two commercial jewelers.

Yet another phase of the lapidary hobby is faceling, the cutting of crystal gemstones from such material as quartz, zircon, amethyst, etc. Not many rockhounds have taken up this work, but actually it is not as difficult as it might seem and the equipment required is neither expensive nor complicated.

Like most hobbies, you can spend as much on lapidary work as your budget will bear, for there is virtually no limit to the amount of equipment and accessories you can buy. The basic equipment is not expensive, however, and exexperienced rockhounds agree that you can set up a satisfactory workshop for around \$250.

Actually you can buy compact table-top lapidary units for as little as \$50 or so, but they are

above are just a few of the many objects which can be made from stones in a lapidary workshop, Items range in size from petrified wood bookends to tiny earrings of polished gensione. Bracelet in foreground is mounted with small tumble-polished stones like the two larger ones to the right above it. A variety of standard jewelry mounts are available for cufflinks, bola ties, pendants, etc. Fish in right center is an example of stone carving.

Color photograph on the right shows the principal gemstones found in British Columbia. Agate in various forms is the most common, but jade is the most valuable even though it is not the same material as oriental jade.

- 1) Plume agate from Shaw Springs Omineca agate from Snaw Spring Omineca agate, Francois Lake Agatized wood, Princeton Green garnet, Lillooet
- 4)
- Agaitzed wood, Princeton
 Picture agate, Shaw Springs
 Plume agate, Shaw Springs
 Jasper, Keremeos
 Shuswap agate, Shuswap Lake
 Porphyry, Fraser River

- 12) Fortification agate, Shaw Springs 13) Rhodonite, Saltspring Island 14) Honey agate, White Rock 15) Hyalite, Shaw Springs 16) Sodalite, Golden 17) Nickel silicate, Wililams Lake 18) Nephrite jade, Fraser River 19) Plume agate, Shaw Springs

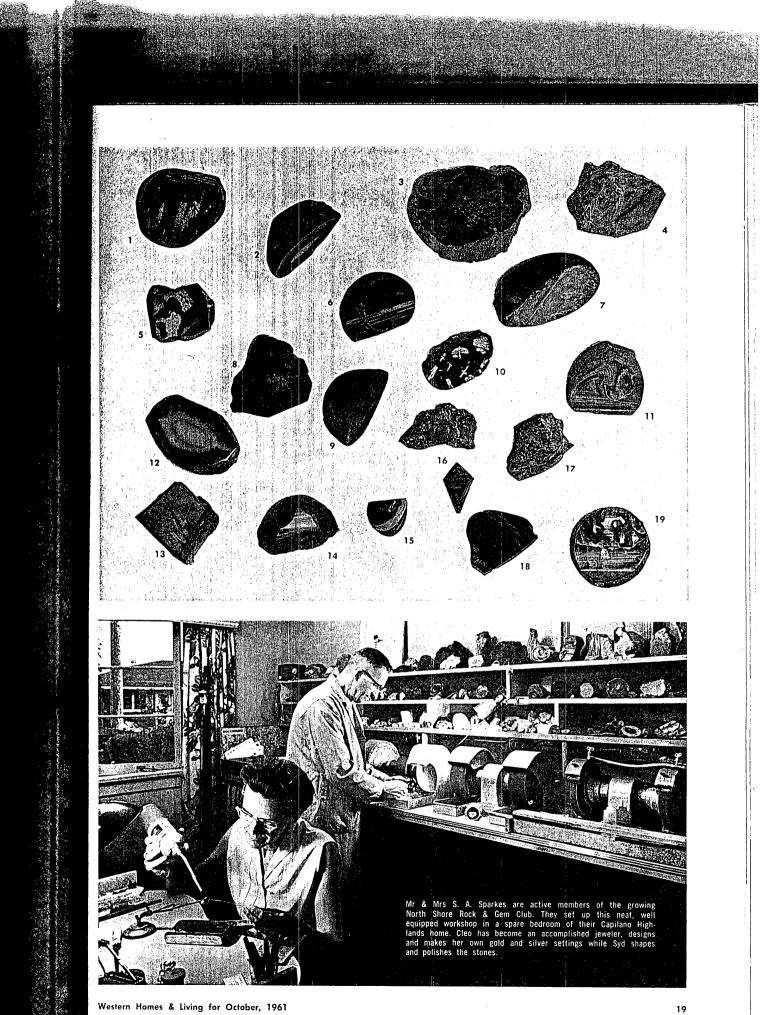
11) Plume agate, Turtle Valley



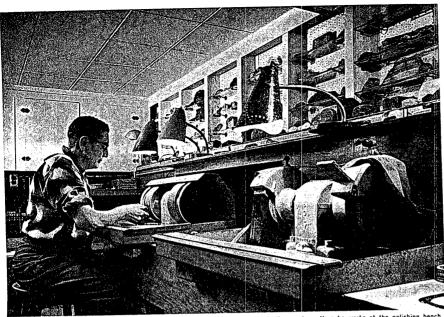
A good part of the pleasure of rockhounding is hunting for artistically valuable speci-mens. This is the outdoor, or summer holiday phase of the hobby. Above, Herb Buckingham, uses skin-diving equipment to hunt for agate in francois Lake, just south of Burns Lake Belaw, Don Wells digs sand concretions out of the clay in a pipeline trench at Hixon, Below, Don near Quesn



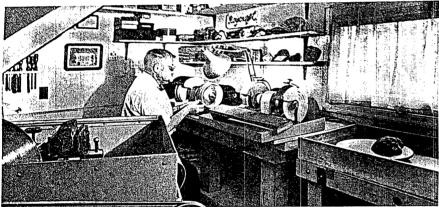
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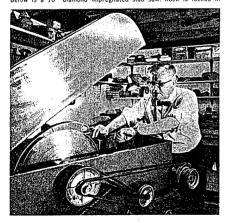
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Vic Price's basement workshop is one of the most complete tapidary layouts in the province. Here he works at the polishing bench, holding a stone against a leather-covered wheel coated with polishing compound. In the foreground are coarse and fine grit grindstones for preliminary shaping. These are fitted with water drip taps to keep the grindstones wet and cool the rock as it is being ground, otherwise it would fracture with the heat. Drip pan is fitted with comfortable armrest, for work must be held steady and firm while it is shaped.



Dr Roy Shortreed, Vancouver dentist and president of The Lapidary Club of Vancouver, is an enthusiastic hobbyist with many interests. Part of his well-equipped basement workshop is set up for lapidary work. Dr Shortreed built some of the equipment himself, including the lap unit for flat polishing on the right, above. Below is a 16" diamond impregnated slab saw. Rock is locked in



vise which feeds it into the saw automatically to slice off 1/4

stabs. Saw runs in light oil. BELOW--Charlie Purdom and Harold Prenter operate a joint jewelry and lapidary workshop in the basement of Purdom's Burnaby home. Combination of these two related hobbies gives creative control over the entire artcraft. Photo by Fredl Stewart.



(Continued from Page 18)

very limited in their capacity, cannot be expanded and are generally not recommended.

The basic equipment consists of a diamond-impregnated saw (10" diameter is ideal for most work) which is used to slice off thin rock slabs and trim them roughly to the shape required; two grinding wheels (8" diameter) in coarse and fine grits for rough and finish shaping of the stone; a sanding drum with various grades of paper to remove the bumps and scratches left by the grinding wheels and buffing attachments to apply the high polish which completes the stone. To prevent the stones from shattering from the heat, cutting is done in oil, grinding is done in water and so the saws and wheels are equipped with reservoirs and drip taps. Sanding is done both wet and dry.

Simple Equipment

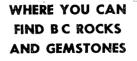
The total time required to produce a typical cabochon stone from the rough-cut slab is about 1-115 hours, but more elaborate stones, special carving, large bookends and desk sets, spheres, rings and many other items are also made by the rockhound with simple equipment. To avoid the trouble of changing grinding wheels, sanding discs, buffers, etc. through all the stages from rough grinding to polishing, separate arbors are added for the different operations, but even the most elaborate workshop has essentially the same equipment as a small one.

A basement workshop corner is an ideal location for a lapidary bench, but it is a clean and tidy hobby which can conveniently be located in a spare bedroom or kitchen corner if no other space is available. Ball-bearing arbor units, saws and motor are surprisingly quiet in operation.

Although most of the rockhound's work is done at the lapidary bench in his basement or back room, it is far from being a solitary hobby. Next to working with stones, the rockhound's greatest pleasure is talking about them to other enthusiasts. The many local club groups which have been formed throughout the province hold frequent meetings and social gatherings, arrange prospecting expeditions, put on shows, prepare and exchange news letters with other rock clubs throughoùt the world, arrange illustrated lectures by rock and gem

(Please turn to Page 25)

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The accompanying map shows 40 of the better known rock-hunting locations in the main genstone area of BC which runs from the lower Fraser Valley to the Okanagan. There are many other genstone locations in the province — Prince George and Francois Lake in the northern section, and the Gulf Islands in the west being notable cases—and new discoveries are being made all the time.

The Fraser River is a rich source of genstione material which may be found on any of hundreds of river bars from Agassiz to the Chilcotin, although they can only be hunted when the water is low. That is from October to April. The principal materials are agate, lasser, lade, nickel-chrome silicate, grassularite, nedonite, garnet, sergentine, and porphyry. A few of the better known and more easily accessible Fraser River gemstone locations are shown

- WALEACH/SEABIRD ISLAND ----Agate, jasper.
- FLOOD Agate, jasper, nicket silicate, muttonfat jade.
- 3) HOPE/GREENWOOD Rhodonite, jade, agate, jasper.
- 4) SPUZZUM --- Jade, agate, jasper.
- BOSTON BAR/NORTH BEND ----Rhodonite, jade, agate, jasper, garnet.
- ANDERSON CREEK Jade, agate, jasper, garnet.
- GOLD NUGGET BAR—Jade, agate, jasper, garnet.
- LYITON Jade, agate, jasper, garnet.
- 9) SHAW SPRINGS—Banded agate, nodules, many with plume. Located 9 miles south of Spences Bridge on the Trans-Canada Highway. These occur in Drynoch slide just north of Shaw Springs resort. First make enquiries at the cafe. Other locations not too far from here include Soap Lake and the Nicoamen Plateau.
- 10) LILLOOET—Jade, agate and jasper. The placer tailings on each side of the Lillooet bridge and the bar downstream are good hunting. This bar extends south to the Seton River.
- 111 UPPER HAT CREEK—Jasp-agate, Petrified Wood. Approximately 7 miles north of Cache Creek turn left on Pavilion Loke Road, drive 6 miles and turn left on Upper Hat Creek Road to the Lehman Ranch, about 2 miles south. Get permission from Mr. Lehman before hunting. The material occurs on the ridge about a half-mile east of the ranch buildings.
- 12) EMPIRE VALLEY—Agate and thundereggs. Twelve miles north of Clinton turn west onto the Meadow Lake Road and cross the Fraser River at Dog Creek about 90 miles away. Turn left after crossing Dog Creek bridge and go to the Empire Valley Ranch where enquiries should be made. These are dry weather roads only and it is imperative that enough gas be taken for the return trip.

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BC GEMSTONE MAP ed by WESTERN HOMES & LIVING - October 1961 Ar12 0 Fossil wood) Jasper + Peridos I 12 Amethyst Gypsum Opel Garnet Rhodonite Travertine (Honey Ony Nickel silicate Θ Agale g 21 2 @₃₈ 32

- 13) SCOTTY CREEK—Agate and amethyst. Exactly 19.2 miles north of Cache Creek turn right off the highway by a farmhouse and drive for about 4 miles. A mine dump is clearly visible from the road to your left. A short distance past here on a turn to the right, just as you cross the creek, you will see where the amethyst occurs in the cliff on your right. Heavy equipment is required to get this material.
- 14) CACHE CREEK—Agale, quartz crystals, and petrified wood. Six miles south of Cache Creek you will see a white seam of quartz crystals in the rack on the left hand side. Just over the hill on your left petrified wood can be found. Take drinking water and wear boots as the cactus is big and the ratilesnakes are plentiful in this area.
- 15) WALACHIN—Green jasper, About 15 miles east of Cache Creek turn south towards the Thompson River and stop at McAbee Station on the CAR. Green jasper occurs in the cliff facing the river behind the station. Indian artifacts are also found in this area.
- 16) SAVONA Green opal, moss agate, Savona Mountain south of Savona has yielded some very fine green opal and moss agate. Take the road through the Indian Gardens Ranch to where it crosses the pipeline. Agate nodules are found about a mile east of this point. Enquire at Savona Ladge for more explicit directions.
- TRANQUILLE RIVER Agates. About one mile east of the Tranquille Sanatorium turn north across

the railroad tracks, through a garbage dump and proceed to bridge over the creek. Agate occurs upstream in the banks and stream bed.

- 18) TRANQUILLE RIVER Peridot. At the junction of the Tranquille and North Thompson roads in North Kamloops, take the turn-off to Lac du Bois which is about 5 miles to the northwest. North of Lac du Bois in the region of Opax Hill, peridot crystals have been found.
- 19) ADAMS LAKE—Agate occurs on the west shore of Adams Lake between Agate Bay and Squam Bay.
- 20) SQUILAX—Blue agate. This is a whistle stop five miles east of the town of Chase on the CPR. A fine quality of blue agate. The slide in which it is found meets the high-



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GEMSTONE LOCATIONS

O N T I N U E D way at the Little River fishing camp, beside Little Shuswap Lake. The Little River itself contains some carnelian agate of good quality. Also the road from Squilax, stotion through Turtle Valley leads to several locations on the south slope of Squilax mountain. 21) RO3BINS CREEK—Massive agate nodules. Five miles north of Monte Lake on Highway 97 turn left on

Lake on Highway 97 turn left on Barnhardtvale Road then right on Robbins Creek Road for one mile. A basalt cliff on your right contains agate as does the surrounding area. Enquire at Monte Lake Shop for more explicit directions. 22) MONTE LAKE—Moss agate. Situated 30 miles from Kamloops on Highway 97 between Kamloops and Vernion, the diggings are located directly on the east side of highway at the south end of the lake. As this location is right on the road it is obsolutely necessary to keep the road clear of debris.

23) FALKLAND ---- Gypsum. 25 miles west of Vernon on Highway 97. The gypsum mine is located on the outskirts of the town of Folkland on the north-east side and is readily accessible by road, as the mine is not operating, gypsum specimens are available for the taking.

- 24) DOUGLAS LAKE ROAD Agate nodules. Turn south on Douglas Lake Road one mile west of Westwold and drive 6.9 miles. Agate nodules are found in the rocky bluffs on the right side of the road.
- 26) PINAUS LAKE Josper, agate. Six miles west of Falkland on Highway 97 turn south. The road is steep and should be used only in dry weather. Pinaus Lake Ledge in six - miles from the highway and enquiries should be made here. Material is located in the bluffs south of the lodge.
- 27) WHITEMAN CREEK Red jasper. About 5 miles north of Vernan turn left on the road which geet along the west bank of Okanagan Lake. The second creek you cross is Whiteman, about 7 miles in Fine red jasper is found in the banks upstream from the road.
- 28) WESTBANK Agate nodules. Westbank is across Okanogan lake from Kelowna. Just north of the old ferry landing there is a bluff facing the lake which contains fine agate nodules.
- 29) ALLEN GROVE Jasper, agale. Take the Green Mountain Road out of Penticton, 14 miles to Allen's Ranch; one mile past here lum right onto logging road approsimately 6 miles and park car. This area has produced some very fine red jasper and geodes.
- 30) GREEN MOUNTAIN ROAD—Potash crystals. The potash dykes occur about 4 miles from the Penticion turn off.
- 31) OLIVER-Agate. Very fine agales have been found in the gravel pit behind the high school in Oliver.
- 32) CAWSTON Rhondonite. Good quality rhondonite is reputed to have been found in the Cawston area.
- 33) KEREMEOS Rhondonite. On the western outskirts of Keremeos you will see a very steep slide on the north side of the highway. This is rattlesnake area so wear boots.
 34) HEDLEY—Nickel silicate. Make en-
- quiries in Hedley for directions to the mine site which is clearly visible from the highway.
- SUNDAY SUMMIT Agaized wood, 300 yards west of Sunday Summit on the Hope-Princeton Highway. Starting at two culverts that run under the road, there is a path that leads up a bluff to the south. At the top you will see the petrified wood diggings.
- 36-37) PRINCETON Petrified wood, amethyst, massive agate, opal, japper. The Princeton area has several locations, Agate Bluffs, McCormack Flats, Vermillion Bluffs. Enquire at the Pines Motel for directions.
- 38) SKY BLUE LAKE—Travertine "Honey Onyx". About one mile north of Sky Blue Lodge there can be found a deposit of Travertine one mile east of the highway.
- 39) ASPEN GROVE Agote. Between Merritt and Princeton is the lower Nicola volcanic belt which has produced some fine banded and colared agotes. Two miles from Aspen Grove, towards Merritt, turn up a logging road for about one and a half miles where a massive agote deposit is located.
- 40) NIČOLA Shadow agate. Num erous, occurrences of agate have been found on the Nicola Plateau between Spences Bridge and Mer ritt.

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Rock Shops and Lapidary Supplies

HECEL'S JEWELLERY LTD. 2978 W. Broadway, Vancouver 8, B.C. RE 1-5448 Original settings created-precious and semi-precious stones and rocks hand not of out-of-date jewellery.

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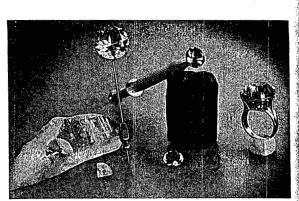
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PARKER'S ROCK SHOP 7247 KINGSWA, BURNABY 1, B.C. LA 1-6557 Open — Tues. Wed. Thurs. Fri. 11-5:30, 7-9 Sot. 11-5:30 only. Closed Mondays. Clistom Made Lewellery Materials and Equipment



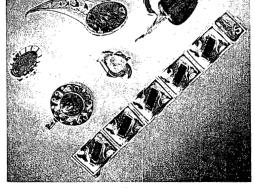


Wayne Boyd, a machinist by trade and a recklound by avecalion, has taken up the art of generaliting force considered a weeral and very difficult craft, it is act unly yeal within the scope of anothers. Wayne built his own faceting equipment.



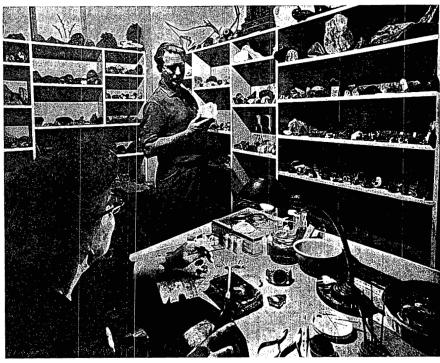
Here are some of the faceted genotiones which have been cut by Wayne Boyd. "Daddy Warbucks" tie pin and small stone on the left are cut from clear quartz crystal lying behind them, Ring and two smaller stones on the right have a brilliant topazyet color, where cut from the surprisingly dark and litelacs forking place of smoky quarty shown with them, farealing reveals the optical furthere and from color holden in the natural crystal. (Fing and the pin settings were made by for the col

Jewelry made as a hobby artcraft compares favorably with a lot of professional work. All the pieces shown here were designed and made by Mary Sutherland, using only gold or silver wire and sheet. Even the hinges and pins are entirely handmade.



Photos by Selwyn Pullan

John and Mary Sutherland have a workshop and display collection in a spare bedroom of their Vancouver home. John does much of the lapidary work while Mary specializes in making jewelry. She is working here on a tiny silver Haida whale pin inlaid with a mosaic of colored stone.



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authorities and generally lead a very lively and convivial life.

You can learn more about this hobby by visiting the Rock & Gem Show at the PNE on October 7-9. There are several lapidary shops throughout the province now and any of these will be delighted to give you information about the hobby or put you in touch with club groups in your area. If this is not convenient, drop a letter to The Lapidary Rock & Mineral Society of British Columbia, PO Box 194, Station "A", Vancouver, which will be happy to get you started. Night school courses in lapidary work are being given in several metropolitan centres and most tock shops conduct classes and provide workshop facilities for a nominal fee. It's an easy hobby to get into but a hard one to give UD.



Wost rockhounds soon face the problem of where to keep their constantly prowing Suffection of stones. Lynne Sparkes here Suppays one neat solution: the dead end # a clothes closet is fitted with a stack # 2-foot-deep trays. The twenty trays are terchangeable

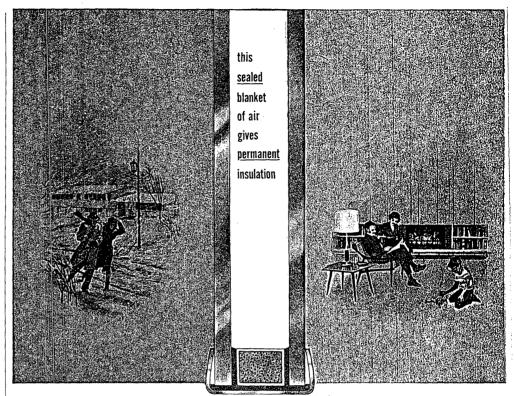


I have just bought a lovely old marble-topped table, but it is quite duty. How should I clean it? A.W.B.

Victoria

Hard and durable as it is, marble Hard and durable as it is, marble dill absorbs many stains and col-lets dirt in minor fissures, veins, ad lines of separation. It should mere be allowed to get really dirty solled. If it does, wet the surface with hot (not boiling) water, then irrob with a mild non-abrasive determine and a soft fiber brush. Ense several times and dry quickly blue clean, lint-free cloth. A coat d colorless paste wax is recom-mended to restore the luster and Note: the surface. miect the surface.

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Canadian-made Twindow is the most sensible way to keep the outside outside

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I remodelled a large oak dining table and tried to give it an oiled finish like Danish furniture. I sanded it down to the raw wood, then applied four coats of raw linseed oil mixed with turpentine for penetration. I thought this would be enough but when I ac-cidentally splashed some water on the table the wood came up rough. Have I done something wrong or should I just apply more coats? L.E., Campbell River

Basically there seems to be nothing wrong in what you have done. Boiled linseed oil is usually preferred to raw oil for this pur-pose because it dries faster, but either is satisfactory. We suspect your trouble lies in one of two places: either the oil is of poor quality and is not drying properly, or you have thinned it with too much turpentine. Actually it is not necessary to thin the oil at all for such a finish, and certainly only

the	first	coat	should	be	thi	nned,
and	then	very	slightly	у. Т	wo	coats
are	usual	ly su	fficient.			

CITY.

We happen to know of a rewe nappen to know of a re-modelled oak dining table that was treated in exactly this way and has given excellent service for five years. A new coat of linseed oil every couple of years renews the finish. Rubbing with the heel of the hand or a bard shift being the hand or a hard cloth brings up the gloss.