



GAZETTE

Visit us on the web at: <http://mn-mggroup.org>

February Event



Boot & Bonnet Pub Party
Saturday, February 18th at 6:30
PM
5017 Kingsdale Drive,
Bloomington,

Bring your favorite Pub Grub
Innkeepers for the Evening:
John and Joan Petroff

Questions? Phone: 952-893-9149
Or jjpetroff@comcast.net





As everyone probably knows, Elena Biessener had surgery this fall for a tumor in the back of her head. She was back in the hospital recently, having memory issues. She is now at Woodbury Healthcare Center. They are working on getting her meds in order. I don't know how long she will need to be there. She would appreciate cards. Send them to her home, as she may be home before they get to her. Dick will bring them up to her. Her address is 10793D Falling Water Lane, Woodbury, MN 55129.

Minnesota MG Group Officers Executive Board

Name & Title	Phone Number	E-mail Address
President – Gene Cooper	612-310-1167	mgbcraz@gmail.com
Vice President – Diane Rindt	715-379-6001	drindt4271@yahoo.com
Past President - Bob (Andy) Anderson	651-439-6876	robtwander1@juno.com
Treasurer – Steve Greenway	715-418-9481	1974GreenMGB@gmail.com
Secretary – Elena Biessener	651-337-0681	elen2b0916@comcast.net
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Regalia Coordinator - Jennie Anderson	952-854-2505	jasweets55@gmail.com
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Minnesota MG Group Coordinators & Representatives

Name & Title	Phone Number	E-mail Address
New Member Coordinator- Jon Bergquist	952-758-6070	jonbergquist1116@gmail.com
InterMarque Rep. - James Pennoyer	763-536-5472	mgadriven@yahoo.com
Tech Session Coordinator		OPEN
Minnesota MG Girls - Elena Biessener	651-337-0681	elen2b0916@comcast.net

The Minnesota MG Group was founded in 1987 and is dedicated to the preservation, restoration, maintenance and enjoyment of the MG cars. MG car ownership is not necessary to be a member of the Minnesota MG Group. Correspondence can be addressed to: Minnesota MG Group - 1316 Martha St N Stillwater MN 55082.



Thoughts from the Boss!



Greetings and salutations!

Another cold month filled with dreams and visions of warmer top down driving. As such the cold weather

does not promote driving our little British cars. With all this time on my hands I have been engaged replacing a water pump. Simple job you think. Here's a tip, be very afraid if you have a Chrysler Mitsubishi 2.7 liter engine needing a new water pump!

Not a whole lot of club news and information has changed since we last spoke. January has come and gone without an officers meeting but with the officer spread out we are thinking of meeting at Dick's bar in Hudson. Choices will be a Thursday evening or Saturday late morning. Stay tuned for more info as they become available.

As always the members that are hosting the next events have been hard at work.

Fresh up this February on the 18th is the Boots and Bonnets Pub Party. Arrive at 6:30 pm at Joan and John Petroff's home, 5017 Kingsdale Dr. Bloomington MN for an evening of MG lore.

One Boots and Bonnets is an authentic English pub offering a great meeting place for pints & people. One location though is not one to take your MG to. Located on a Royal Caribbean International cruise ship, Harmony of the Sea. Reported to have more than 2500 crew members this ship has a staff that could double the early factory staff at Abingdon!

If you have question or plan on attending please contact our hosts, Joan and John at 952-893-9149 or, jjpetroff@comcast.net

For those that know that education will always make you the hit at MG events one of the best

MG repair teachers around will be here in the Twin Cities.

April 1-2 Saturday & Sunday John Twist Tech Session Quality Coaches, 20 West 38th St, Minneapolis MN. Contact Mark Brandow for details.

Also in April on the second Saturday the 8th is our Spring Kickoff Brunch planned by Diane Rindt and Jennie Anderson. Further information will be in this issue. This has always been one of the highest attended events to start off our year.

I've been contacted by members looking forward to more driving events. The Friday night ice cream drives seemed to always be a hit for a quick evening drive. Some others would like to explore possible overnight destination drives.

Watch the newsletter and our Facebook page for updates.

Cheers,
Gene

VP's Corner



Greetings MG enthusiasts I hope you've been enjoying this freezing weather. It sure has been a typical winter in Wisconsin and Minnesota. First mild, then below zero, back to temps in the 20's (so we can get lots of snow) and then below zero again. Burr!

Jen Anderson and I have been busy working on the Kick off Brunch that will be on Saturday April 8th. It's going to be held at the *Embassy Suites* in Bloomington, MN. It starts at 10:00am so be sure to make note of it because it's going to be a great time! Please check out the flier in this month's newsletter for more details.

The topic for my article this month is *Battery Maintaining*. I realize our LBC have been put away for the winter but if you don't have a battery maintainer you may think it's a good idea for next winter.

Some of you may take the battery out of your car and store it in your basement until spring. Others may leave it in the car and disconnect it until spring, which will shorten the life of your battery. At our house we have too many toys with batteries to be doing either of the above. What I recommend to any of you with the same predicament, install a battery maintainer. We not only have them in our vintage car's we also have them installed on our boat, two snow machines and the riding lawn mower.

I'm going to share with you how I put permanent battery maintainer in my 1971 MGB. It may be more work than some of you are willing to do, please note you can purchase a battery maintainer that plugs into your cigarette lighter and isn't a permanent fixture.

1. Purchase Onboard Battery Maintainer:

You can purchase an Onboard Battery Maintainer through *Moss Motors* for \$67.00 or for about half that price go to your local tool and equipment store. You can also find them on line with *Northern Tool and Equipment* www.northerntool.com

What you are looking for is an Schumacher On Board Battery Maintainer (6 / 12Volt, 1.5Amp, Model #SE-1-12S.)



2. Mount the Onboard Battery Maintainer:

Decide where you want to mount the battery maintainer. I chose a location in the trunk because it doesn't take up space or look ugly

inside the car. I also wanted to have easy access for plugging a power cord into it.

When inside the trunk, stay in line with the passenger seat. There will be a hole in the trunk floor where the wire harnesses is routed to the battery compartment.

Drilled a hole on the back wall of the trunk to secure the battery maintainer. My maintainer came with a bracket; the new maintainer may be made of molded plastic with holes for mounting in the plastic. I used a pop rivet to secure it in place. If you don't have a pop rivet gun use a short sheet metal screw. Pay attention to the size of the hole you drill as not to make it too large for the screw size or pop rivet pin you select.



3. Remove the Battery Cover:

Inside the car there is a large metal plate found on the back shelf of your MGB. There are 5 DZUS fasteners holding it in place. Turn each counter clockwise to unlock it from the back shelf. Lift metal cover off of the shelf and set aside.

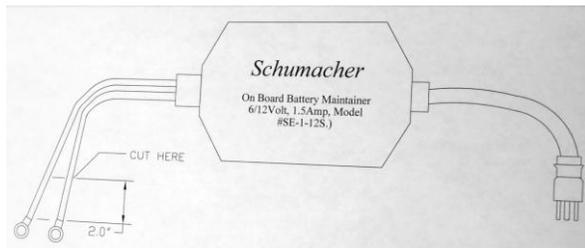


4. The Battery:

My twelve-volt battery is directly behind the passenger seat under the metal cover we just removed. All MG's up to 1974 came from the factory with two six-volt batteries. Most people have replaced the two six volt batteries with a one twelve-volt battery. Before I go any further you may be wondering why did MG design the car with two six-volt batteries. Depending on whom you ask there's more than one answer. I've been told it's because back in the day the twelve-volt batteries were much larger in size then they are today and it didn't fit in the back of an MGA or MGB. Others have said it's for weight distribution, thinking the MG designers were picky about weight placement - which is why the engine sits so far back in the car, the fuel tank is located on the centerline, and the batteries are evenly distributed about the centerline.

5. Routing wires from the Battery Maintainer to the Battery and Installing a Fuse:

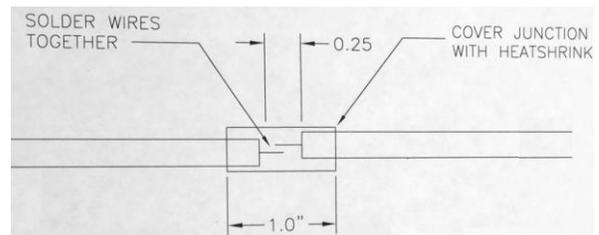
The black and red wires coming from the battery maintainer have gold circle ring lugs attached to them, these need to be cut off so you can extend the length of the wires to reach the battery inside the car. Make sure you purchase the same gage wire to extend these wires. I used 18AWG; UL1015 stranded wire. When you cut the wires, cut them three to four inches from the side of the battery maintainer. The diagram below does not represent the actual length of the red and black wires; it's only for reference. Keep the wires with the circle ring lugs they will be used later.



For additional protection from an accidental short I install a fuse (3Amp / 250V, Slo Blo) in line with the red (+) wire. (Note: My car is negative ground.) See photo and diagram below for soldering technique.



Strip the insulation on each wire back ~ 1/4". Slide 1/2" of heatshrink over each wire before soldering. Shrink the heatshrink in place with a heat gun covering the solder joint after splicing wires together.



6. Secure Wires and Fuse Holder in Place with Wire Ties:

Use wire ties to bundle up the fuse / wire assembly. I also secured the new wires to the wire harness before they were routed through the hole in the trunk.

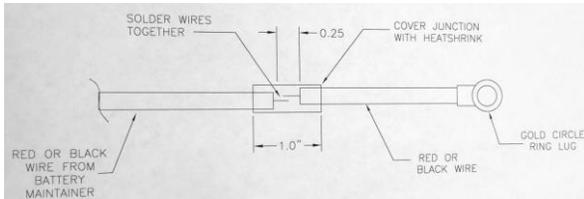


There is no photo of the underside of the car where the wires travel in parallel with the wire harness. This photo below shows the wires coming through the battery box insert inside the car.



7. Solder Circle Ring Lugs Wires and Mount Circle Rings to Battery Terminals:

After the wires are routed inside of the car you will need to solder the ring lug /wire to the extension wire from the battery maintainer. Strip the insulation on each wire back ~ 1/4". Slide 1/2" of heatshrink over each wire before soldering. Shrink the heatsink in place with a heat gun covering the solder joint after splicing wires together.



8. Mount Circle Ring Lugs to Battery Terminals:

My car has universal battery terminals installed. I removed one of the bolts from the side and put the circle ring lug in place. Re-installed the bolt with the ring lug attached.



Return the large metal plate that covers the battery compartment and now you are set.

One nice feature these battery maintainers have is they monitor the battery storage and once the voltage is met they shut off automatically. After my car is tucked away in its location for the winter I run an extension cord to it and plug it in. (Use an indoor/outdoor heavy three prong power cord.)

Note: There is a small switch attached to the frame (on the right) inside the trunk for a light. I pull it out of the hole that it mounts to so it does not stay on, being I have the trunk lid open slightly to allow the power cord to be plugged in.



Diane

Editor's note – Einstein's Riddle Challenge part 2



Happy February All!

We had four brave souls who completed the challenge and got back to me with the correct answer. Congratulations to Richard Schwarzinger, Reinout Vogt, Lori Dawkins and of course my better half Steve Greenway. The answer to the riddle, in full glory, is at the end of this newsletter.

This year I am looking for technical articles or articles of general interest to the club and I have a great resource to such information within the other club's emails I receive each month.

This month we're featuring an article entitled The \$50 Car Paint Job by our guest Author Dan Shockley from the Northern California MG Car Club.

The \$50 Car Paint Job courtesy of Dan Shockley

"That man is the richest whose pleasures are the cheapest" - Henry David Thoreau

As I was preparing to sell my MG TD this past year, I did some minor body and paint work on it. I found it frustrating to match the paint and avoid spraying more than I needed. I was intrigued by the reports of a method to paint a car by hand for only \$50.

The interest was sparked by a hobby magazine and on-line blogs reporting on the successful use of hardware store Rustoleum paint on a Corvair. And most enthusiasts have heard of or seen other brush-paint jobs. With the difficulties of obtaining easy home use automotive spray paint and safety equipment, a revival of such a technique is very welcome.



Several successes have been reported on the MG blogs. It was used sometimes for painting inside trunks, under bonnets, and individual parts but also for entire cars. The photos and testimonials provided undeniable proof.

An example:

"I used Home Depot Rustoleum for my engine bay - last spring - and it turned out perfect...helped me win 1st place at the Portland, Oregon All British Field Meet!"



The favored technique involves using either the standard Rustoleum or the professional grade version, spread with foam brushes & rollers or a mix of foam and really-good bristle brushes.



The paint is diluted and enhanced with products for better leveling and faster drying. There are many recommendations for maximizing the technique. I will only introduce the subject here. Color can be changed by mixing or by using paint tints. Two reds can be mixed, for example. One standard Rustoleum red is very close to MG

red and another very good for MG engine red/maroon.

Check the web sites and the u-tube videos for more information. The original article is an important first reference and may be found here:

<http://horsepowersports.com/paint-your-car-with-a-roller-for-under-100/>

Here is a report by one tester:

Today was coat #1 day for me and the car. It was a learning day for me so my expectations were not very high (mistakes can be sanded out). Various lessons learned:

- 1. Despite impatient Type A tendencies, it is good to at least tape the chrome and stuff.*
- 2. The Really Cheap paint trays will develop leaks at the corners due to bending.*
- 3. Find a rolling table or something to keep the loaded paint tray near you and not on a rounded fender.*
- 4. Do not forget to change out of your \$100 LL Bean walking shoes before starting to paint. (See #3.)*
- 5. Keep some lacquer thinner around for removing paint from new Sumitomo tires. (See #3.).*

6. The MEK will evaporate quickly from the paint on a sunny day so keep more around and monitor the viscosity. Add more as needed.

7. If you can't spray your paint and you do not really care about winning at Stowe this might not be a bad way to do it. Inside would be a far better place to do the painting (especially under lots of trees). The tree stuff does seem to brush off when it dries a bit.

See photos. Report success! I can mail hard copy information to you.



Upcoming Events!



**John Twist Seminar hosted by Quality Coaches
April 1-2**

Stay tuned for more information or Reserve your spot now by calling 612-824-4155



ANNUAL **SPRING KICK-OFF**

Saturday April 8, 2017

Celebrate the beginning of the driving season!



DOOR PRIZES

Embassy Suites
2800 American Boulevard West
Bloomington, Minnesota, 55431



DOOR PRIZES

Socialize 10:00am – 11:00am
Brunch at 11:00am

\$18.00 Per Person, pay at the door. Please make reservation with Diane Rindt at drindt4271@yahoo.com or 715-379-6001

by April 1st



Safety belt!



Drive your car that day and have your name go in for a special drawing!

Safety belt!





Recurring Events

The MG Girls' Corner



The next MG Girls lunch will be at one o'clock Monday, February 13th at a LaFonda. 3665 Sibley Memorial Hwy, Eagan.

Please RSVP to Diane Merrill at dianemerrill1@gmail.com or 651-387-7681 if you plan to attend.

Multi-Marque Breakfast EVERY* SATURDAY MORNING! 8:00 a.m., Elsie's Restaurant Bar and Bowling, 729 Marshall Street N.E., Minneapolis, MN 55413. Everyone is invited! Special room for the auto-afflicted. Attendance on recent Saturdays has been twenty to thirty or more. Women are invited every Saturday but the second Saturday of every month is Lady's Day. All marques and nationalities invited. Map to the Elsie's at <http://elsies.com>

East Ender's Saturday Morning Breakfast A group of vintage foreign motoring enthusiasts have started a semi-monthly East Ender's Breakfast Group for those that want Breakfast a little later and not drive to Minneapolis. Join the East Ender's on the 1st and 3rd Saturdays each month, 9:00 a.m. at: LUMBERYARD PUB, 1321 St. Croix Trail, Afton, MN. North of County Road 18 and St. Croix Trail.

MN MG Group 2017 Calendar of Events

DATE	EVENT	LOCATION and HOSTS
February 18	Boot & Bonnet	Joan & John Petroff
April 1-2	John Twist Tech Session	Quality Coaches
April 8	Spring Kick-off Brunch	Diane Rindt – Jennie Anderson
April 22 or 29 (final date TBD)	Midwest Motorsports - Sauk Rapids	Dan Iburg
May 6	Drive Your MGA or Any MG Day	
May 13	InterMarque Kick-off	Osseo
May 27	Spring Chicken Run	Diane & Steve Rindt
May 28	InterMarque Picnic	Cherokee Park
June 1-4	Rendezvous	Sugar Lake Lodge – Grand Rapids, MN
June 10	June & Tom M's 50 th Anniversary	@ Moerke's – Hudson, WI
June 16-18	Women's Retreat	Up-North (WI) – Sue Greenway
June 25	InterMarque Picnic	Cherokee Park
July 1	Blast From the Past	Chetek, WI
July 8	Tech in the Sticks (and women who shop)	Sue and Steve Greenway, Cumberland, WI
July 30	InterMarque Picnic	MMGG Hosting
August 5	Dawn's Birthday Party/Picnic	@ Dawn's - Mpls
August 12	Brit Fest	Barb & Tom Belongia, Hudson
August 19	Royal British Car Show	Jaguar Deal
August 27	InterMarque Picnic	Cherokee Park
September 9	Wheels & Wings	Osceola, WI
September 16	Fall Tour	Bob Anderson
September 22-24	Waumandee Hill Climb	Waumandee, WI MN Austin Healey
September 24	InterMarque Picnic	Cherokee Park
October 14	Fall Colour Tour	Diane & Steve Rindt
November 4	Annual Business Meeting	Gene Cooper
January 2018	Holiday Party	Diane Rindt – Jennie Anderson

MMGG Technical Advisors

Electrical - Jeff Schlemmer jeff@advanceddistributors.com	T-types - Bob Figenskau (952)935-7909
MGA - Brian McCullough brian@bmcautos.com	Tech Coordinators - OPEN
MGB - Randy Byboth W1979MGB@comcast.net	Randy Byboth – 952-936-9335 W1979MGB@comcast.net
Midgets - Brian McCullough (651)462-0145	Steve Nichols – 612-306-1022 seedguys@msn.com
Triple-M - Lew Palmer (651)436-7401	Bodywork – OPEN

Online Resource:

MG Experience (<http://www.mgexp.com>)



THINGS FOR SALE, SERVICES AND WANTED

Minnesota MG Group member ads will run free for three months, unless you tell the editor to drop them earlier or run them longer. The month/year the ad was placed will be listed.

Cost for commercial ads is as follows:

- Business Card—\$10.00/issue
- 1/4 page—\$20.00/issue
- 1/2 page-\$30.00/issue
- Full page-N/A.

All commercial ads must run a minimum of 6 months and must be paid in advance. Send money to Sue Greenway 712 26 1/4 Ave, Cumberland, WI 54829. Make checks payable to the MMGG. Send ad to smgreenway1@gmail.com. If you are a member, please indicate this when placing the ad or notice. Please also provide your full name so information can be verified. **MMGG will not sell your information or share it with third parties for marketing or other purposes.**



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5995 Highview Place, Shoreview, MN 55126

Email: scrixen@gmail.com Cell: 612-877-1938

bmcautos.com

**Coming in October
New Location**

**444 EAST DUAL BLVD
ISANTI, MN 55040**

**OPEN HOUSE
10.17.2015 from 9a - 2p**

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SU Carburetors work best when in tip top condition. We will rebuild your carburetors paying special attention to throttle shafts butterflies, floats, dampers and jet assemblies. Speedy turn-around, responsive communication, guaranteed work.

H, HS and HIF carburetor services are offered.

For a quote please email dave@dbraun99.com or visit www.dbraun99.com

REGALIA

Shirts in various styles and colors with custom-embroidered Minnesota MG Logos are now available for ordering. Items can be picked up at the next event or shipped directly to the address you specify. A shipping & handling fee of \$5.00 will be added. Add an additional fee of \$3.00 if you want your name stitched on your purchase. To place orders contact Jennie Anderson at jasweets55@gmail.com Phone: 952-854-2505



MG Girl Tank Top
\$12.50 ea (MMGG Members)



MG Girl Patches
\$14.00 ea



MMGG Patches
\$14.00 ea



MMGG Tank Tops
\$12.50 ea (MMGG Members)



MMGG Polo Shirts
for men or women
\$24.00ea to



MMGG hats
\$15.00 ea



MMGG Sweat Shirts
\$28.00 each



MMGG Blanket
\$20.00 each



MMGG Denim Shirts
Long and Short Sleeve
\$35.00 each

Ask Jennie Anderson to see the various styles of Jackets (Summer/Fall and Winter) - Hats (Baseball, Stocking Caps, Visors) - T-Shirts Short/Long Sleeve, Tank Tops, Denim Shirts Short/Long Sleeve, Polo Shirts, Dress Shirts, Sweat Shirts Plain/Hooded, Pullover/Zipper. Jennie Anderson jasweets55@gmail.com or Phone: 952-854-2505

Minnesota MG Group Membership Form

The Minnesota MG Group was founded in 1987 and is dedicated to the preservation, restoration, maintenance and enjoyment of all MG cars. MG car ownership is not necessary to be a member of the Minnesota MG Group.

Membership is \$35.00 with a \$5.00 discount if paid before the spring MMGG Spring Kick-Off Brunch, typically held in - March of each year. The membership year runs from January 1st to December 31st. New members joining after August 31st of any given year shall be granted membership for the remainder of that year and the next year as well. **Use this form to join, renew or change your membership.** Please complete this form and include a check for \$35 (or \$30 if paying before or by the day of the MMGG Spring Kick-Off Brunch).

- Check Box if you **DO NOT** want your name, address, phone number and email Information available in an MMGG Members' Roster.
- Check Box if you **DO** want your name, address, phone number and email information available in an MMGG Members' Roster
- Check this box if this is a renewal and circle any changed information.

Not indicating a preference will result in your information being added to the roster.

MMGG will not sell your information or share it with third parties for marketing or other purposes.

Mail this form to:
Minnesota MG Group
c/o Steve Greenway,
712 26 1/4 Av.
Cumberland, WI 54829

Make Check Payable to:
Minnesota MG Group

If you have any questions please contact Steve at 1974GreenMGB@gmail.com

Name:	Spouse/Partner's Name:
Address:	Address:
City:	City:
State & Zip:	State & Zip:
Telephone:	Telephone:
Email:	Email:
MG's Owned:	MG's Owned:

Please list other MG club affiliations or memberships: (i.e NAMGAR, NAMGBR, MGCC, etc.)

Einstein's Challenge



The Answer

It's the German.

How did I solve it?

The Options

Well, we know from examining the clues and the question that:

- The possible nationalities are:
 - Norwegian
 - Brit
 - Swede
 - Dane
 - German
- The possible colors are:
 - Red
 - Green
 - White
 - Yellow
 - Blue
- The possible beverages are:
 - Tea
 - Coffee
 - Milk

- Beer
- Water
- The possible cigars are:
 - Pall Mall
 - Dunhill
 - Blends
 - BlueMaster
 - Prince
- The possible pets are:
 - Dogs
 - Birds
 - Cats
 - Horses
 - Fish

The Deduction

Well, we know there are five houses. We'll assume they're all in a row, and are numbered from left to right. We know the Norwegian is in the first house:

House	#1	#2	#3	#4	#5
Color	?	?	?	?	?
Natl	Norweg	?	?	?	?
Bevg	?	?	?	?	?
Smokes	?	?	?	?	?
Pet	?	?	?	?	?

Since the Brit lives in the red house, the Norwegian can't. We also know the Norwegian lives next to the blue house, so his house isn't blue. We also know that the green house is to the left of the white house; the Norwegian can't live in the white house since there is no house to the left, and can't live in the green house because his only neighbor, the one to the right, is known to live in the blue house. Therefore, the Norwegian lives in the yellow house.

We also know the owner of the yellow house smokes Dunhill, and that the Norwegian has a neighbor with a blue house (the Norwegian only has one neighbor, to the right.)

So here's what our matrix looks like now:

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	?	?	?
Natl	Norweg	?	?	?	?
Bevg	?	?	?	?	?
Smokes	Dunhill	?	?	?	?

Pet	?	?	?	?	?
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The man who keeps horses lives next to the man who smokes Dunhill; so the horse owner lives in the blue house. The center house's owner drinks milk, the green house's owner drinks coffee, and the green house is to the left of the white house. Since we know the left two houses are the yellow and blue houses, the only position for the green and white are green as the fourth and white as the fifth, since the middle (third) drinks milk and the owner of the green house drinks coffee. The middle house has to be red, and therefore is the Brit's. So now this is what we know:

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	?	Brit	?	?
Bevg	?	?	Milk	Coffee	?
Smokes	Dunhill	?	?	?	?
Pet	?	Horse	?	?	?

The owner who smokes BlueMaster drinks beer; since we know what houses #3 and #4 drink [and neither are beer] and we know what house #1 smokes [and its not BlueMaster], the only possibilities are houses #2 and #5. Keep this information in mind. Since it is evident house #1 cannot drink beer (only house #2 or #5 can), the only possible beverages for house #1 are water and tea, but since the Dane drinks tea, house #1 drinks water. The man who smokes Blends lives next to someone who drinks water; the only house next to #1 (the water-drinking house) is #2. The man who smokes Blends lives next to the one who has cats; so the cat-house is #1 or #3.

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	?	Brit	?	?
Bevg	Water	B/T?	Milk	Coffee	B/T?
Smokes	Dunhill	Blends	?	?	?
Pet	Cat?	Horse	Cat?	?	?

Since the Dane drinks tea, he must live in either house #2 or #5. The Swede and German could live in house #2, #4 or #5.

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	D/S/G?	Brit	S/G?	D/S/G?
Bevg	Water	B/T?	Milk	Coffee	B/T?
Smokes	Dunhill	Blends	?	?	?
Pet	Cat?	Horse	Cat?	?	?

We know the beer-drinker smokes BlueMaster. The only houses that could drink beer are #2 and #5, but since we know that #2 smokes Blends, #5 must be the house which drinks beer and smokes BlueMaster, and #2 has to be the house that drinks tea and the house of the Dane. We can eliminate the possibility of the Dane's residence being house #5.

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	Dane	Brit	S/G?	S/G?

Bevg	Water	Tea	Milk	Coffee	Beer
Smokes	Dunhill	Blends	?	?	BlueM
Pet	Cat?	Horse	Cat?	?	?

We know the German smokes Prince. Therefore, he could not live at house #5 and therefore has to live at house #4. The Swede must live at house #5; we also know house #5 raises dogs since we know the Swede raises dogs, and that house #4 smokes Prince since the German smokes Prince.

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	Dane	Brit	German	Swede
Bevg	Water	Tea	Milk	Coffee	Beer
Smokes	Dunhill	Blends	?	Prince	BlueM
Pet	Cat?	Horse	Cat?	?	Dogs

The only possibility for house #3's smokes is Pall Mall; all of the others are taken. We know that whoever smokes Pall Mall raises birds; so house #3 raises birds, and house #1 therefore has cats, since the only houses which could have had cats were #1 and #3, and #3 has been eliminated.

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	Dane	Brit	German	Swede
Bevg	Water	Tea	Milk	Coffee	Beer
Smokes	Dunhill	Blends	PallM	Prince	BlueM
Pet	Cat	Horse	Birds	?	Dogs

The only remaining pet is the fish, which must be owned by the German. We now know who owns the fish, and have solved the puzzle.

The completed matrix of data is as follows:

House	#1	#2	#3	#4	#5
Color	Yellow	Blue	Red	Green	White
Natl	Norweg	Dane	Brit	German	Swede
Bevg	Water	Tea	Milk	Coffee	Beer
Smokes	Dunhill	Blends	PallM	Prince	BlueM
Pet	Cat	Horse	Birds	Fish	Dogs