

# Paw **Prints**

**VOLUME 5, ISSUE 5** 

### SPECIAL POINTS OF INTEREST:

- The Muncie 4 Speed
- **Prevent Blind**ness Thank you!

### INSIDE THIS ISSUE:

Letter from the Editor	'
Muncie 4 Speed	2
Thank You Note!	5
Tiger Bytes/ New Members	6
For Sale	7
Minutes	8
May Agenda	9
Calendar of Events	10
Flyers	Ш

**Club Store** 

**Sponsors** 

13

16

### A Letter from the Editor

ter that was right? Thankfully, it's all in the past.

Some of our GTOs have already been out. I know of at least three that went on the spring cruise and a few have taken their GTOs out for a run.

I have not gotten mine out of storage yet and with rain forecasted all this week, it may stay in hibernation for a little while longer.

With the better weather comes car shows and cruises. I will start sending out my emails highlighting events going on

SPRING IS FINALLY HERE!! around central Ohio. Look for them and then look for the club What a long and miserable win- to gather and cruise to many of the events.

> Speaking of shows and cruises, please come to the May meeting (May 14th to be exact) where we will discuss the details of the Officers and Board of Directors decision on the summer show and potential cruise-in.

Things are in full swing this year for the celebration of the 50th anniversary of the introduction of our beloved GTO.

The national event in Pittsburgh will surely be a big event. As will our club's participation in the Arthritis Foundation's

Classic Auto Show and Cruise-In where the GTO, with the help of our club, will be a featured marque. If you haven't pre-registered for these two events, get it done so you don't miss out.

Of course there will be our summer show. Like I said, come to the May meeting!

**Next month look for pictures** and a story from the spring cruise Stan and Pam Farlow put together. As my little bit of thanks, their 65 graces this months cover!

See you soon and be safe!

—Kevin



## The Muncie 4 Speed Transmission by Steve Schaeffer

When you hear the words," Vintage Muscle Car", the next thing that comes to mind is 4 on the floor, screaming tires, and violent acceleration. The 4 speed transmission that took all this abuse in the GM Muscle Cars was the Muncie 4 speed.

The Muncie transmission can be identified by an aluminum case and tail housing, a 7 bolt side cover with 2 shifter arms, and a 3rd shift arm coming out of the tail housing. This is a very durable transmission and it will handle all the torque of a stock or modified muscle car engine on the street.



GM also had a very light duty 4 speed transmission during this same time period. That transmission was the Saginaw 4 speed. It can be identified by a cast iron case and tail housing. Also all 3 shift arms are in the side cover. They were able to do this by using much smaller gears than the Muncie. Don't be tempted to use one in your big V-8 muscle car, you will find out it will not be very durable.

Also don't be tempted to use a GM T-5 from a mid 80's Camaro. This would be a cheap way to get an overdrive 5th gear but those transmissions are rated at less than 300 foot pounds of torque. A 455 engine putting out over 500 foot pounds of torque would shred the gears in a T-5 in no time. In fact Chevrolet only offered that trans behind a 305 V-8. It will not even hold up behind a mild 350 small block.

The Muncie 4 speed transmission did not come out until midyear in the 1963 model year. The original 4 speed transmission that GM used was the Borg Warner T-10. The T-10 can be identified by a 9 bolt side cover. Like the Muncie it has 2 shift arms on the side cover and reverse in the tail housing. The T-10 was made in both aluminum and cast iron.





## The Muncie 4 Speed Transmission continued by Steve Schaeffer

A GM T-10 with the 27 spline output shaft will interchange with the '63 thru '70 Muncie if you use the correct shift linkage. The Muncie is a stronger transmission than the original T-10. When GM stopped building the Muncie 4speed transmission after the 1974 model year, Borg Warner came out with the Super T-10. This is a very stout transmission. The Super T-10 looks like a regular aluminum case T-10 but it uses a bigger output shaft. The regular Muncie transmission uses the same driveshaft yoke as a Turbo 350 or Turbine 300 automatic transmission. The Super T-10 uses the considerably bigger Turbo 400 drive shaft yoke as did the late produc-

tion Muncie's.



The original '63 and a half, '64, and '65 Muncie transmissions had a smaller 7/8 inch diameter counter shaft that the cluster gear in the bottom of the transmission rotates on. The transmission was beefed up starting with the '66 model year and all the later transmissions have a 1 inch diameter counter shaft. The '63 thru '70 transmissions used a 27 spline output shaft. The '71 thru '74 transmissions used the 32 spline output shaft.

There are 3 different gear ratios available in the Muncie transmission. They are identified as follows. The units with no grooves cut sideways into the input shaft and cluster gear have a 2.56 ratio 1st gear, 1.91 2nd, 1.48 3rd, and 1.00 4th gear. This was the original M-20 wide ratio transmission for normal street use.

Units with 1 groove cut sideways in the input gear and cluster gear are the close ratio M-21 transmissions. This set of ratios was originally designed for Corvettes for road racing. 1st gear is 2.20 ratio, 1.64 in 2nd, 1.28 in 3rd, and 4th is 1.00. The close ratio unit has less of an rpm drop when shifting from 3rd to 4th than the wide ratio units. However it needs a steep rear end gear for street use. GM only offered the close ratio trans with 3.90, 4.11, or 4.33 gears from the factory.

The improved wide ratio M-20 transmission can be identified by 2 grooves cut sideways into the input shaft and cluster gear. The ratios of this transmission are 2.52 1st, 1.88 2nd, 1.46 3rd. and 1.00 in 4th.



## The Muncie 4 Speed Transmission continued by Steve Schaeffer

There was also an M-22 close ratio transmission that came out in 1971. This was called the "Rock Crusher." It had straight cut gears instead of the normal helical cut gears. It was the strongest Muncie yet, but it was really designed just for racing. It was extremely noisy in operation, hence the nick name, "Rock Crusher.'

All Muncie transmissions have a production code number stamped on the right side of the case in front of the tail housing. The close ratio Muncie transmission pictured, that I just finished rebuilding is stamped P8B12B.

The P is the transmission type, Muncie. The 8 is the model year, 1968. The B is the month, February. Not all the letters are used. They use 12 letters, A, B, C, D, E, H, K, M, P, R, S, and T. A couple of my buddies will need to use their fingers to figure this out. For example M would be August. The next 2 numbers in the code are the day of the month that the transmission was manufactured, in this case, the 12th. The last letter is the model code. A indicates the M20 wide ratio. B indicates the M21 close ratio. Or C indicates the close ratio "Rock Crusher."

Naturally both the factory shift linkage or the stronger aftermarket Hurst shift linkage is available from the normal muscle car vendors. Hurst can rebuild your Hurst original equipment shifter or your Hurst after-market shifter. The web site for Hurst is www.hurst-shifters.com. The tech support phone number for Hurst is 818-483-1366. I loved the old Hurst motto, "Shift as hard as you want, but don't break your arm!"

All the parts for the Muncie transmission are still available thru the after-market. They even manufacture an upgraded Super Case available for the early 7/8 inch cluster pin or the later 1 inch diameter cluster pin. GM no longer stocks new parts for the Muncie transmission but most dealers will still locate new old stock parts for you. It is a relatively easy transmission to rebuild compared to late model 6 speeds. The input shaft bearing nut has a left handed thread and requires a special wrench to remove it. Also it does require press work to dismantle and reassemble the output shaft.





### **Prevent Blindness Thank You!**



Our Vision Is Vision®

#### State Office

1500 West Third Avenue Suite 200 Columbus, Ohio 43212

Phone: 614.464.2020 Toll Free: 800.301.2020 Fax: 614.481.9670

#### Northeast Ohio Chapter

Hillcrest Medical Bldg. #1 6803 Mayfield Road

Suite 111

Cleveland, Ohio 44124 Phone: 440.720.1285 Fax: 440.720.1441

#### Northwest Ohio Chapter

2200 Jefferson Avenue Suite 2020

Toledo, Ohio 43604 Phone: 419.327.2020 Fax: 419.327.2494

#### Southwest Ohio Chapter

615 Elsinore Place Annex Bldg. Suite 2020

Cincinnati, Ohio 45202 Phone: 513.531.9001 Fax: 513.531.9002

#### **Dayton Office**

313 South Jefferson Street

Suite 104

Dayton, Ohio 45402 Phone: 937.223.8766 Fax: 937.223.8767

Email: info@pbohio.org Website: pbohio.org



#### Mission:

To Prevent Blindness and Preserve Sight March 21, 2014

Ms. Donna Landis GTO Association of Central Ohio 58 Arlington Avenue London, OH 43140-1030

Dear Mercandis: Cu

On behalf of Prevent Blindness Ohio, thank you for your donation of \$250.00 to our Annual Sight-Saving Campaign. Your generosity brings our mission to life – to prevent blindness and preserve sight.

Thanks to you, 18-year-old Bradly, brought to the United States with his family on the promise of the American dream, was able to receive glasses despite his parent's lack of income as a result of being victims of human trafficking. When his old pair broke, his parents reached out to us seeking help. We provided a donated eye exam and eyeglasses which Bradly says has helped him excel in school. Bradly says that "without Prevent Blindness Ohio, my achievements would never have been realized."

Your investment helps our smallest Ohioans, too. Ella's mother thought she saw the world just as perfectly as the world saw her. After we sponsored a vision screening at her preschool, Ella's mom was stunned to learn that she did not pass the test and was referred to an eye doctor for further evaluation. Ella suffered from amblyopia (lazy eye), a childhood eye disease that causes permanent vision loss by the age of six if not treated properly. Ella's amblyopia was caught before irreversible vision loss occurred.

<u>Prevention</u> is simple and cost effective. Blindness and vision loss are not. Your support helped us provide direct services to more than 800,000 Ohioans last year through:

- Vision screening programs that find children and adults at highest risk for losing their vision and connecting them to professional eye care and eyeglasses.
- Educating Ohioans of all ages about the importance of protecting their eyes from injury at home, work, school, and play.
- Advocating for programs and policies that widen access to sight-saving care for individuals in urgent need so that vision can be preserved.

We say it all the time: when it comes to eyes, you get one pair and no spare. Thank you for your investment to protect and promote healthy vision. We encourage you and your loved ones to take good care of their eyes.

Sincerely,

Sherill K. Williams President & CEO

P.S. Because no goods or services were furnished to you in exchange for this contribution, the entire amount can be considered for a tax deduction.

# Tiger Bites! - Noteworthy News Bites

- ♦ 2014 Summer Show: At the April meeting, the club voted to have the Officers and Board of Directors make a decision on the summer show and potential cruise-in; venue, sponsor, band, and whether to have the cruise-in at all was to be decided. We will have our Pontiac Indian Uprising at Haydocy, but the cruise-in has been canceled due to insufficient sponsor funding. Please come to the May meeting for more details.
- Spring Club Cruise: Look for pictures from the spring club cruise. Thanks to the Farlows for finding the location and route and leading the cruise!
- ♦ 2014 is the 50th Anniversary of the GTO! The Nationals are in Pittsburgh and the Arthritis Foundation Car show (the weekend after the Nationals) is featuring the GTO for it's anniversary. Our club is planning to participate in that as a featured marque. July 1-5, 2014 is the national event while July 10, 11 & 12, 2014 is the Arthritis Foundation Classic Auto Show and Cruise-In. Mark your calendars and preregister for both!
- If you need to renew or are thinking of renewing your **GTOAA** membership, please do so to ensure our club remains a valid GTOAA chapter with all the benefits of that status. There is an is an application in your Paw Prints below and the GTOAA can now take membership applications on line.



### Welcome New Members!

• Welcome Mark Heminger—Mark lives in Tiffin, Ohio. We hope to see you at our meetings and when we cruise as a club!

## For Sale

DJ GTO Parts! Now your one stop shopping place for used and NEW GTO parts. If you know the part number, great, otherwise just let them know what it is you need! See Dan Gregory Jr. (or call 614-563-0877 or email info@djgtoparts.com) for more information and options for taking delivery of your parts or visit their website at <a href="http://digtoparts.com/">http://digtoparts.com/</a>. GTOACO members receive a discount!



Send in your items for sale to your Paw Prints Newsletter Editor (pictures welcome).

Remember, ads are FREE to GTOACO Members!



## Meeting Minutes March 12, 2014 Meeting

President Ron Cozzo called the meeting to order. Those in attendance Lonnie & Lynne McLaughlin, Joe Block, Jeff Frazier, Steve Schaeffer, Shawn Rinehart, Bill Sigg, Brent Barham, Pam & Stan Farlow, Rick Farrell, Jim Lowry, Brenda & Cody Ferguson, Max Treier, Jim Evans, Kevin Russo, Mike Shockley, Dan Gregory, Donna & Ronnie Landis.

Treasurers Report: Report was given by Mike Shockley.

**Auto Show March 13<sup>th</sup>-17<sup>th</sup>:** Members who brought their cars there had said they all had a great time. I few finger prints. Security was good and it was easy getting the cars out on Sunday. Would like to be able to have tickets to get in every day. A big thank you to Lonnie McLaughlin, Kevin Landis, Jim Evans, Brenda Ferguson and Max Treier for representing the club.

**Swap Meet:** March 23<sup>rd</sup> at Haydocy: Vendors were all happy. Dealership was an easy clean up. All said and done club made about \$700.00. Thanks to all members who helped!

**Greater Ohio GTO Swap Meet:** April 13<sup>th</sup> at Toth Buick GMC in Akron. Ron Cozzo, Jim Evans, Lonnie McLaughlin and Doug Boyle showed interest in going. Gates open at 9

**GTOACO Spring Cruise:** April 26<sup>th</sup>. Cruise to Burr Oaks State Park Lodge. RSVP to Stan Farlow. Would like to get there about noon. Rain date is May 3<sup>rd</sup> and we would be cruising to Hockings Hills State Park Lodge.

GTOACO Summer Cruise-In & All Pontiac Show Saturday August 9th & Sunday August 10th -

Things are still up in the air. Martinos in Dublin has stepped up and said they would love to have both shows. It is a good match. The owner is very flexible and wants us to be there. Plenty of room. There is a grassy field that would be ideal for the band. Right now we are looking about sponsorships. Need money for trophies, band, and stage. If we can't support the cruise then it will just be an all Pontiac Show on Sunday and most likely be at Haydocy. Since time is not on our side the Club Officers & Board of

Directors will make the decision on this. **Arthritis Foundation Show July 11<sup>th</sup> & 12<sup>th</sup>:** Please pre-register. Kevin Russo and Jim Evans hoped that 40 total cars would participate and would like to see at least 20 club cars. Preparation is good and we have a good grassy spot on the main road through the show.

**GTOAA Nationals, Pittsburgh July 1-5.** The club is talking about going to the Winery on Friday night for Dinner instead of the parking lot party. The Winery is about ½ hour away. Looks like about 25 people with 11 cars were interested from the meeting.

**Dublin 4<sup>th</sup> of July Parade:** Organizers of this parade are looking for a GTO Convertible to run in the parade. If you are not going to the Nationals & would like to participate please let Kevin Russo know. If you would like to have your car in the parade & cannot drive it Kevin has offered to drive in the parade.

Congrats to Steve Schaeffer for making the cover of the Legend.

Meeting Adjourned: Joe Block, Lonnie McLaughlin 2<sup>nd</sup>.

Next Meeting May 14, 2014

Submitted by Donna Landis, Secretary



Meetings held

the 2nd

Wednesday

each month at

Haydocy

Automotive on

W. Broad St.

Columbus, OH



### Meeting Agenda - May 14, 2014

- Treasurer's Report Mike Shockley
- Greater Ohio GTO Swap Meet, April 13, Akron Jim
- GTOACO Spring Cruise Stan
   April 26, Cruise to Burr Oaks Stat Park Lodge
- GTOACO Summer Cruise-In and All Pontiac Show Ron
  - Summer Cruise-In with band, CANCELLED due to insufficient sponsorships
  - Sunday August 10 All Pontiac Show at Haydocy

- POCI Convention, Wichita June 17-21
- GTOAA Nationals, Pittsburg July 1-5
- Arthritis Foundation Show July 11-12, Jim, Kevin Russo
- Ames Performance Pontiac Nationals, Norwalk August 1,2,3
- · Website Ron
- New Business
- · Open Discussion
- Motion for Adjournment



### **Calendar of Events**

May 14, 2014 Regular Meeting 7pm @ Haydocy Automotive

To eat before the meeting be at Rooster's on West Broad St. anytime after 5:00PM. Roosters is located in the parking lot in front of the strip mall across the street from Jeg's former Broad St.

May 11, 2014 Happy Mother's Day!

May 14-19, 2014 Mecum Indianapolis

May 23-25, 2014 Springfield Swap Meet

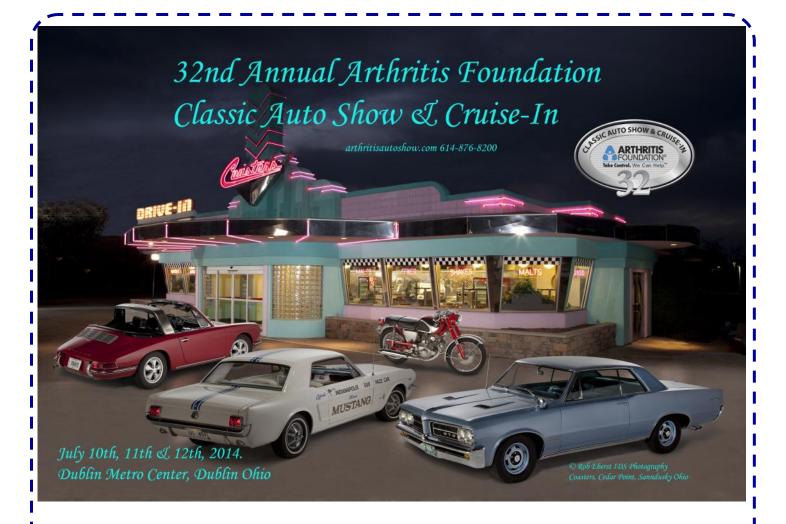
Springfield Fairgrounds

May 25, 2014 Ye Ol Mill Rod Run & Picni

Utica, OH

May 26, 2014 Memorial Day

		1	MAY 20	14		
Sun	Mon	Tue	Wed	Thu	Fri	<b>S</b> at
				1	2	3
4	5	6	7	8	9	10
11 Mother's Day!	12	13	14 Club Meeting 7pm@Haydocy	15	16 Mecum Indianapolis	17
18	19	20	21	22	23 Springfield S	24 pring Swap Meet
25 Ye Ol Mill Rod Run	26 Memorial Day!	27	28	29	30	31



- As part of the year long celebration of the 50th Anniversary of the GTO, the GTOACO is proud to support the 32nd Annual Arthritis Foundation Classic Auto Show and Cruise-In and the GTO as a Featured Marque for the show.
- Preregister at www.arthritisautoshow.com including online payment. Save some money and get a preregistration gift!
- ♦ July 10, 2014 is the Rolling Legends Tour to Mershon's World of Cars! Then returning to Westerville and The Right Stuff to finish off the day with some food, drink and more cars!
- ♦ July 11, 2014 is the Cruise-In! Come out and see close to 1000 cars cruising in to win a 6 foot trophy and music by Snidely Wiplash!
- ♦ July 12, 2014 is the Classic Auto Show, a judged show with Phil Dirt and the Dozers as evening entertainment!
- ♦ Come join us for the celebration!





## APPLICATION FOR MEMBERSHIP GTO ASSOCIATION OF CENTRAL OHIO

Name:		Date:	
Address:	City:	State:	Zip:
Home Phone:	Cell Phone:		
Occupation:	E-mail Address:		
MEMBERSHIP COST PER CALENDAR YEAR IS \$20	0.00. THIS INCLUDES YOUR SPOUSE.		
MAKE CHECKS PAYABLE TO: THE GTO ASSO	CIATION OF CENTRAL OHIO		
SEND TO: Web Site www.gtoaco.com	DONNA LANDIS 58 ARLINGTON AVE. LONDON, OH 43140 740-852-1742 E-MAIL ADDRESS SHARKLANDIS@NETSCAPE.NET		
RECEIVE OUR MONTHLY NEWSLETTER, THE PAW OR <b>POSTAL MAIL</b>	PRINTS, BY EMAIL (COLOR PDF) (BLACK AND WHITE PHOTO COPY)		
ARE YOU A MEMBER OF THE GTO ASSOCIATION O	DF AMERICA #Date Expires_		
SPOUSE'S NAME:			
CHILDREN:			
YEAR, COLOR AND STYLE OF GTO (s) OR PONTIAC	C (s) CURRENTLY OWNED:		
WHAT ACTIVITIES WOULD YOU BE INTERESTED IN	N?		
OPTIONAL: WRITE A SHORT STORY ABOUT YOURSELF, FA YOU HAVE ANY PICTURES OF YOUR CAR SENE PRINTS FEATURING MEMBERS. IT IS A GOOD	THOSE ALSO. THIS INFORMATION W	ILL BE USED IN A COL	

GTOACO PAW PRINTS



### Club Store!

Item	Price	
Hats (cloth) Navy & Khaki	\$7.00	
Hats (mesh)	\$20.00	
Men's White Logo T-Shirt	\$10 (S,M,L,XL)	\$12 (2XL)
Women's White Logo T-Shirt	\$10.00	
Women's Light Blue Logo T-Shirt	\$10.00	
Dark Gray Logo T-Shirt	\$10 (S,M,L,XL)	\$12 (2XL)
Tank Top (Lime Green, Yellow, White)	\$10.00	
Navy Logo Sweatshirt	\$20 (S,M,L,XL)	\$22 (2XL, 3XL)
Logo Golf Shirt	\$25 (S,M,L,XL)	\$27 (2XL, 3XL)
Khaki Long Sleeve Logo Shirt	\$35 (S,M,L,XL)	\$37 (2XL)
Denim Long Sleeve Logo Shirt (Limited Sizes)	\$25 (S,M,L,XL)	\$27 (3XL)

### **Blow Out Sale (Limited Sizes)**

Kid's Navy Logo T-Shirt	\$2.00
Gray Sweatshirts	\$5.00
Light Gray, White, Navy Logo T-Shirt	\$5.00
Logo Golf Shirts (have vellowed)	\$10.00



### **GTOAA** Information

Your chapter is an affiliated chapter with the GTO Association of America. You can join the National GTO organization, the GTOAA & receive the Golden Quill Award Winning publication, The Legend.

To Join complete the form below and mail in, or join online at www.gtoaa.org



	Allond
Membership App	Date:
	Mem #:
Name:	Phone:
Address:	Email:
GTO Ownership is not a requirement of	f membership to the GTOAA
GTO OWNERSHIP	
Year Body Style Engine	
Year Body Style Engine	
Year Body Style Engine	
I agree that, if elected to membership, I will confor conduct myself in the manner that promotes the go	als and purposes of the Organization
signed	Date
DUES: \$35.00/year for members in the USA, \$40.00USD/year \$50.00USD/year for all other international members. the same family name (includes membership card, de There is a \$2.00 bank processing fee for applications	\$5.00 for associate memberships in ecal, and membership listing).
CHECK / MO #	
Mastercard / Visa Card #	Exp #
Signed:	Date:
Make Check/Money order payable to GTOAA:	

## GTOACO Club Officers

President

Ron Cozzo 1710 Buttermilk Hill Rd Delaware, OH 43015 740-777-1135

rcozzo@earthlink.net

Vice President

Kevin Landis

4670 Big Plain-Circleville Rd.

London, OH 43140

740-361-1116

klandis@absolutecleaner.com

Treasurer

Mike Shockley

6812 Chateau Chase Dr.

Columbus, OH 43235

614-395-6411

schockleymike@att.net

Secretary

Donna Landis

58 Arlington Ave

London, OH 43140

740-506-5804

sharklandis@netscape.net

Board of Directors

Jim Evans

13791 Cable Rd

Pataskala, OH 43062

740-927-5302

gtoaco71@columbus.rr.com

Kevin A. Russo

3175 Arctic Ave.

Lewis Center, OH 43035

740-549-2279

krusso sp@hotmail.com

leff Fraizer

412 Sweetgum Way

Westerville, OH 43081

614-890-0999

jfraz68@aol.com

Brenda Ferguson 8819 Crestwater Dr Galloway, OH 43119 614-878-1789

Newsletter Editor

Kevin A. Russo

3175 Arctic Ave.

Lewis Center, OH 43045

740-549-2279

krusso\_sp@hotmail.com

Newsletter Mailings

Bill Hartley

9810 Roller Rd

Byesville, OH 43723

740-685-6525

bhartley@hartleyco.com

Web Master

Paul Wilson

107 Leonard Ave

Newark, OH 43055

740-973-7807

webmaster@gtoaco.com



## **GTOACO Sponsors**



### **Haydocy Automotive**

3985 West Broad St Columbus Oh 43228 (614) 279-8880

### **Absolute Cleaning Services**

Cleaning Blinds, Fire Damage, Ceiling cleaning & service restoration
Kevin Landis, President
I12 Chandler Ave
London Ohio 43140
740-490-7185

klandis@absolutecleaner.com

### Inskeep Brothers, Inc.

Printers Jeffrey K Inskeep 3152 E Dublin-Granville Rd Columbus Ohio 43231 614-898-6620

### DJ Auto Parts, Inc.

Dan Gregory, II
11283 Main St
Stoutsville Ohio 43154
740-474-4614
Fax 740-474-2314
Rust Free Parts & Cars Bought & Sold

### **Capital City Appliance Service**

Jerry Brownfield 2830-D Fisher Rd Columbus Ohio 43204 614-308-9028 Fax 614-308-9034 ccas2830@aol.com



2010-2013 GTOAA Newsletter Certificate of Excellence Recipient

A Publication of the GTO Association of Central Ohio

740-777-1135

Delaware, OH 43015

1710 Buttermilk Hill Rd

Ron Cozzo



**PLO2 YAM**