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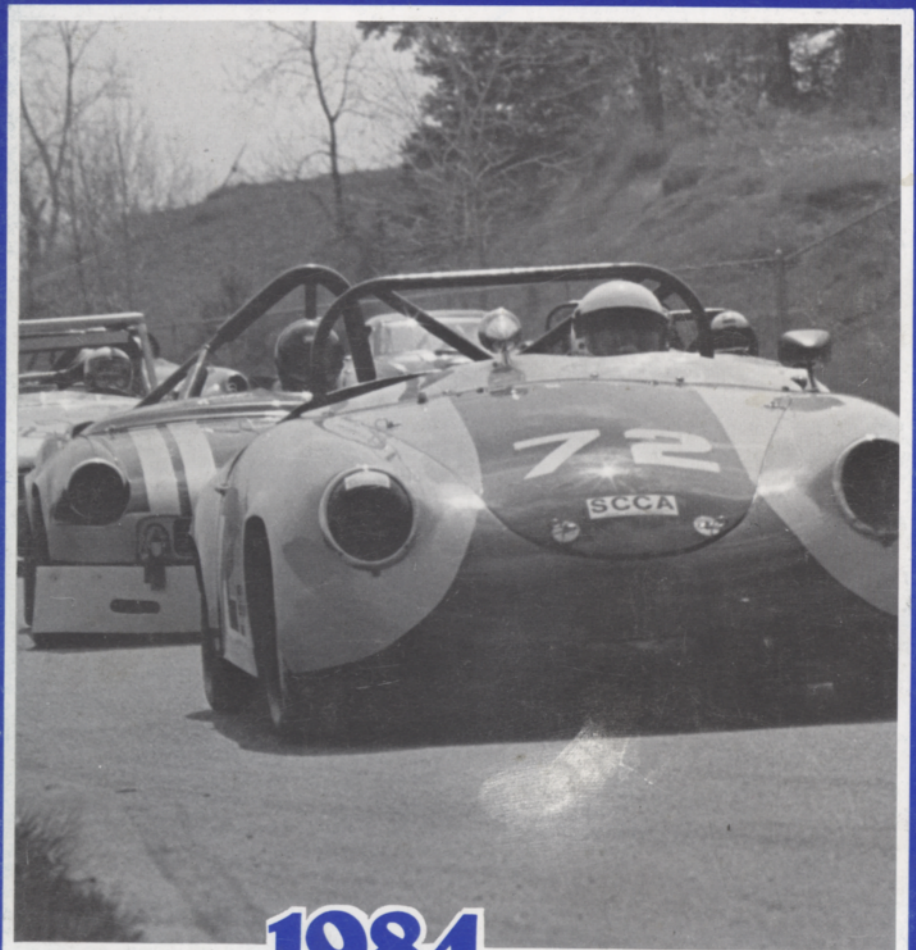
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# WATERFORD HILLS



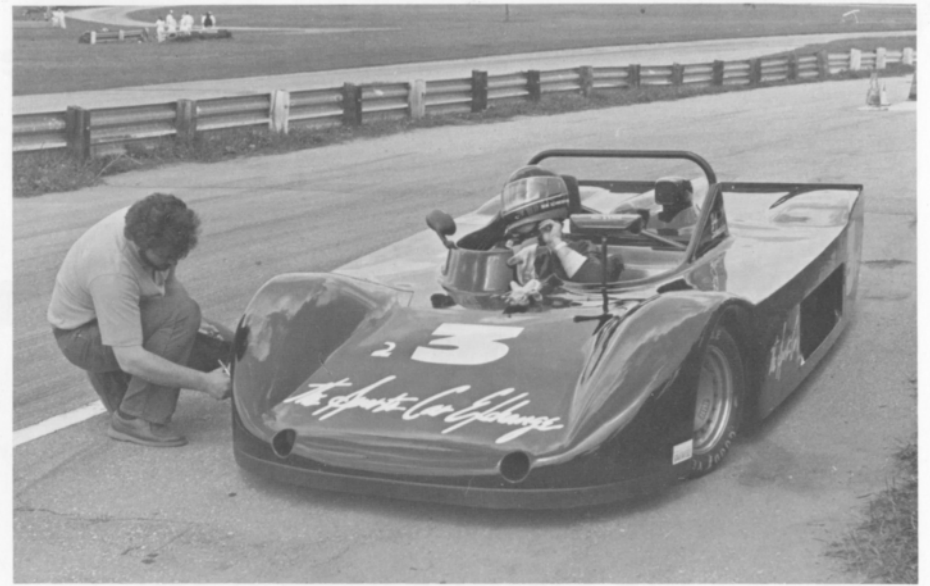
## ROAD RACING

**oakland county  
sportsmen's club**



# 1984 Waterford Digest

**JUNE \$1.00**



AL BIZER

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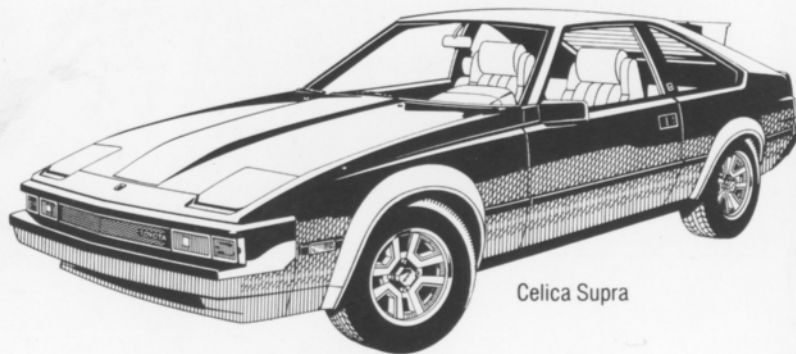
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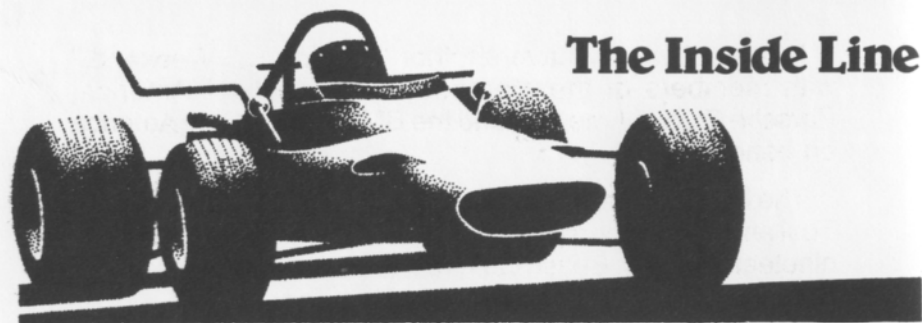
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## The Inside Line

Welcome to the second of Waterford Hills six weekend race series.

Lap records fell last month as Ted Wollensen of Clarkston set a new GT5 mark of 1:19.95 in his flying yellow Mini. Bill Bayley, of Bloomfield Hills set a new SSGT record of 1:24.48 in his sharp new white Trans-Am, and Mark Division, of Lake Orion set a new Radial Formula Ford record of 1:16.99 in his immaculate green Crossle.

A special welcome this weekend to members of the Alfa Romeo Owners Clubs from Detroit, Chicago, and Cincinnati who have come to participate in "Ethnic Auto Weekend." We also welcome members of the Ferrari Club of America, and the Maserati Information Exchange. Be sure you visit them and take a look at some fine Italian machinery.

When you look at the tower you can't miss the new signs from B.F. Goodrich and Valeo Clutches. Please patronize our advertisers and when you do be sure and tell them you saw their ad in the Digest or around the track.

Work is progressing on the turn four, Hilltop, spectator area. When it reopens it will certainly be one of the most popular spots to watch the races.

Also this weekend our new, enlarged concession stand will be open for your convenience, and Sunday the Boutique will be open in the spectator area with a variety of items.

Looking ahead we have many exciting events planned.

The July 7-8 weekend will be sponsored by GAVCO, see their ad in the Digest. The July 28-29 weekend will be sponsored by B.F. Goodrich and will feature two special races for Showroom Stock cars with a cash purse. All the top cars and drivers are expected for what promises to be a major event.

In August we will have another "Ethnic Auto Weekend," with members of the Mercedes-Benz Club of America, Porsche Club of America, and the BMW Car Club of America on hand.

The final weekend, September 29-30 is sponsored by Mac Tool and Ford Motorsport. In addition we expect members of nineteen different British car clubs to be in attendance for our biggest "Ethnic Auto Weekend" of the year.

Don't forget if you would like to learn more about our club come to our meeting the first Wednesday of the month.

Thanks for coming and we hope to see each and everyone of you next month and throughout the rest of the season.

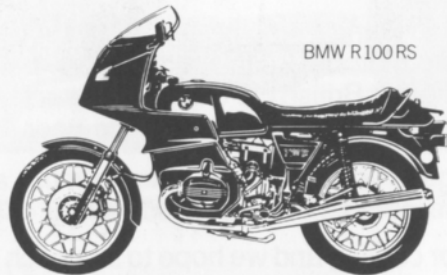
*Mike White*

## Officials

Waterford Hills Road Racing Club	
President	Jim McIntosh
Chief Steward	John Morris
Assistants	Ed Atkinson Barb Kitch
Stewards of the Meet	Dan MacDonald Peter Quenet Mike White
Director of Racing	Bernie Fling
Race Coordinator	Dave Hinman
Chief of Timing and Scoring	Peggy Krom
Chief of Flags and Communications	Dan DiRienzo Jr.
Assistant Chief of Flags and Communications	Jim Miller
Chief Starter	Hal Goff
Chief Tech Inspector	Elmer Dickinson
Chief Paddock Marshal	Bruce Penberthy
Chief Grid Marshal	Nancy Waggoner
Chief Course Marshal	Dave Sanders
Chief Race Medical	Blackie Meyers
Chief Registrar	Carol Humphreys
Licensing Chairman	Jerry Shiloff
Membership Chairman	Lee White
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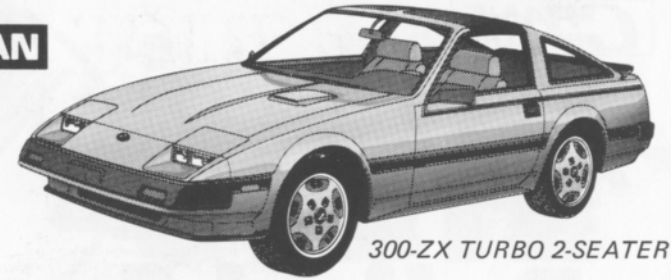


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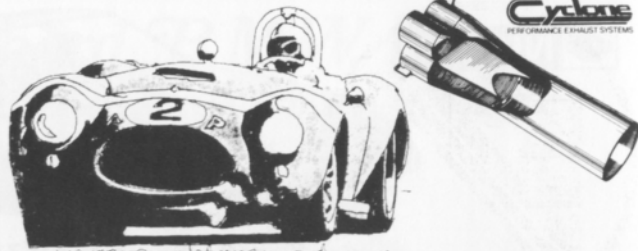
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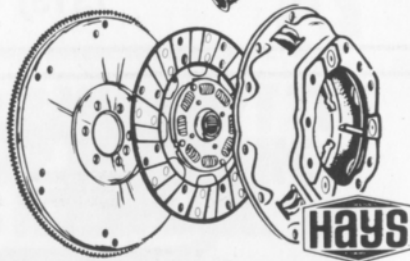
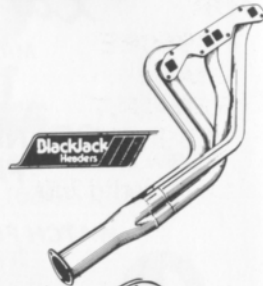
## Redford Speed

26577 GRAND RIVER  
532-2050 or 532-6223  
10-8 MON-FRI 10-6 SAT

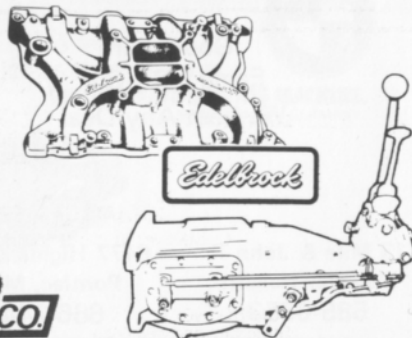
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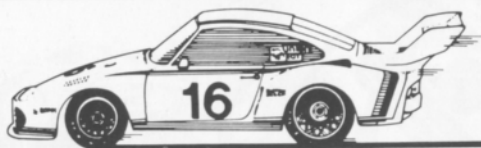


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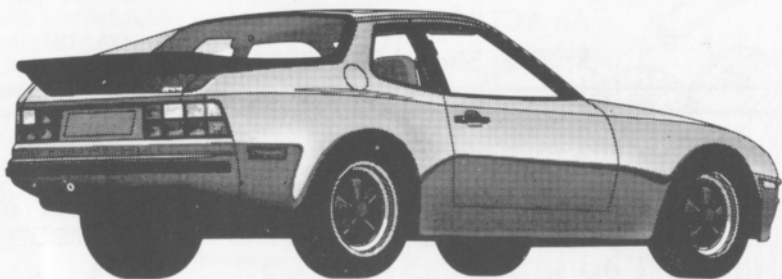
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## MAY 5/6 RACE WINNERS CLASS RACES

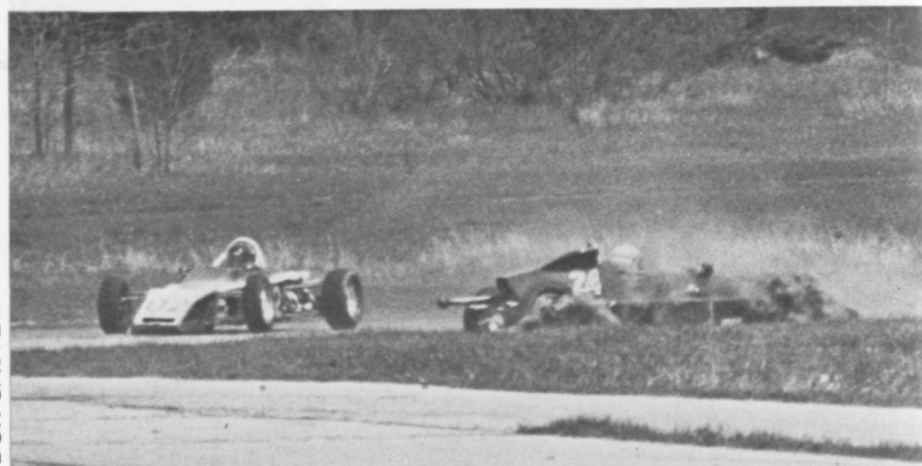
		Saturday	Sunday
Race 1	GT-5	Ted Wollesen	Ted Wollesen
	GT-4	Dave Dobry	Dave Dobry
	SS-GT	Bill Bayley	Bill Bayley
Race 2	FV	Steve McNamara	Mike Hunt
Race 3	S2	Bob Schneider	Bob Schneider
	EP	Paul Nawrocki	Skip Froh
	GP	Kevin Good	Kevin Good
	FP	Randy Black	Randy Black
	HP	Sam Hamilton	Sam Hamilton
Race 4	FF	David Johnson	David Johnson
	FFR	Mark Davidson	Mark Davidson
Race 5	GT1	Don Sak	Ray Krom
	GT3	R. A. Albo Sr.	Ken Nelson

## FEATURE RACES

	Race 1	Race 2	Race 3	Race 4
1st	Mike Hunt	Robert Ohneck II	Scott Duthie	Bob Schneider
2nd	Steve McNamara	Randy Black	Don Kitch	Harry Drake
3rd	Mike Trosell	Dave Dobry	Don Fitz	Doug Goad
4th	Dennis Hamilton	Sam Hamilton	Bill Shamick	Doug Buist
5th	T. J. Shaver	Doug Goad	Agostino Fabbri	Ken Nelson



DON CASTLE



DON CASTLE



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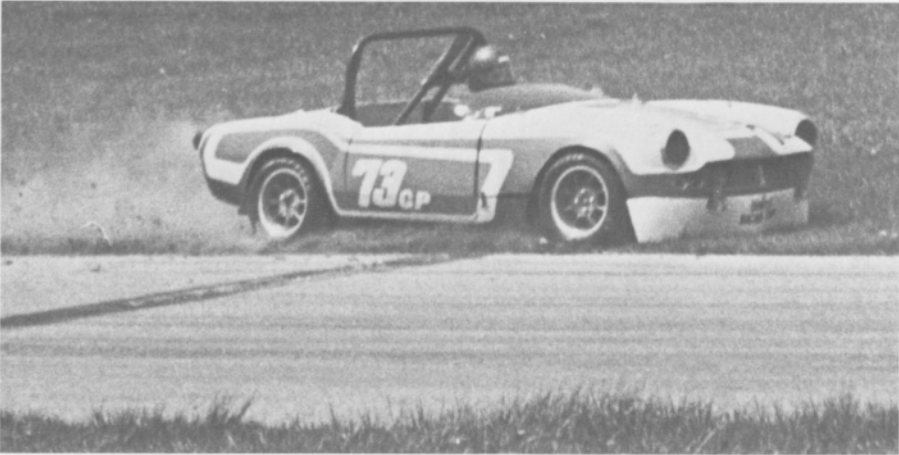


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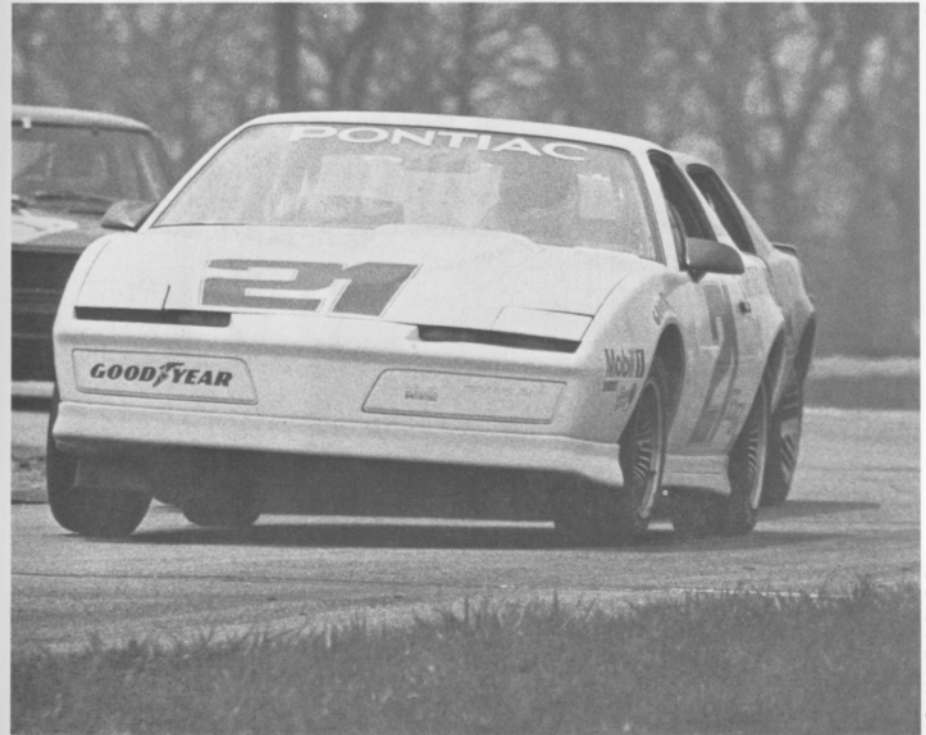
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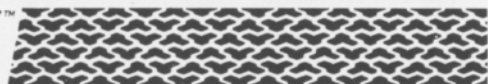


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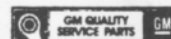


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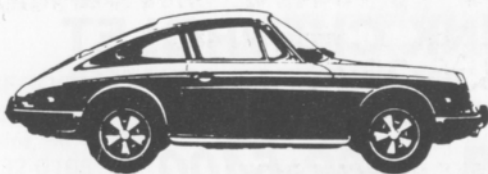
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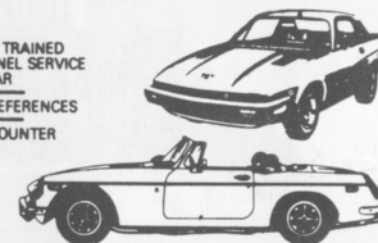
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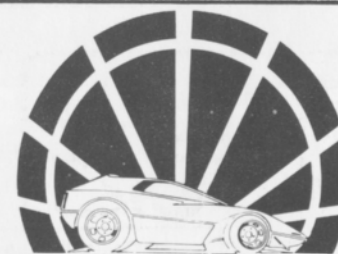
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LOOKing back  
with Bizer

*June 1970*



*VEES LINED UP*



*DAVE KIRBYS B.M.W. AND  
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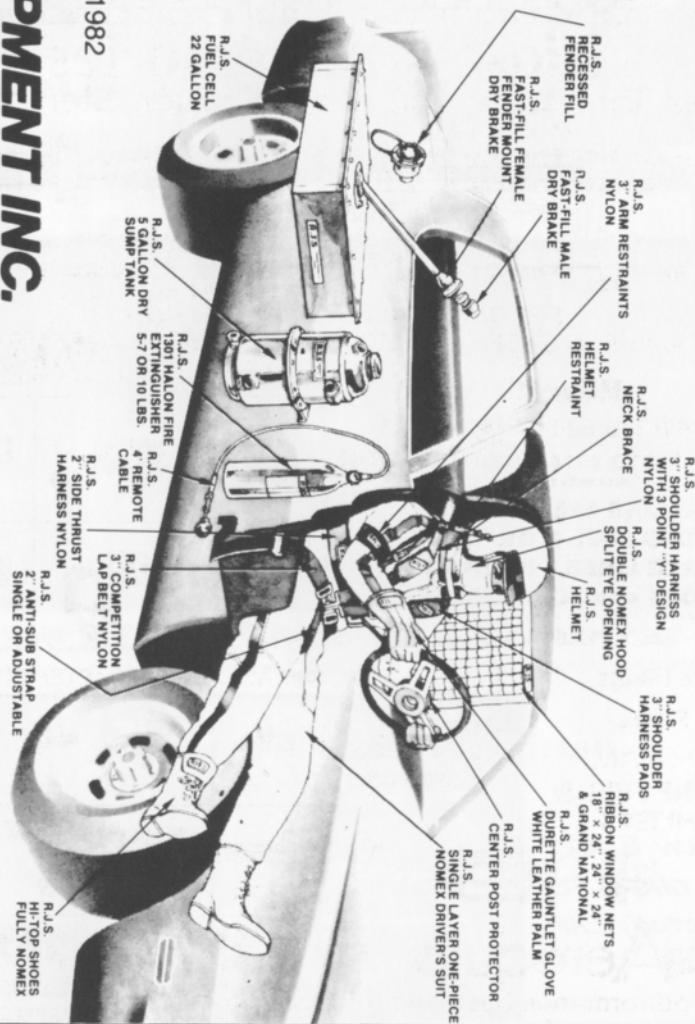


*ED COCHRAN IN A McCLAREN LEADS THE PACK*

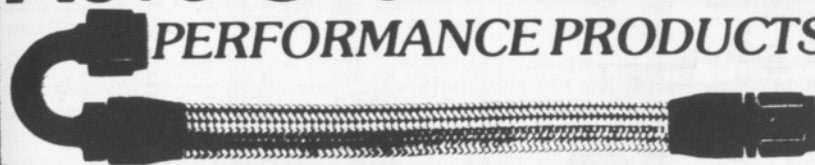


*DON BURRY  
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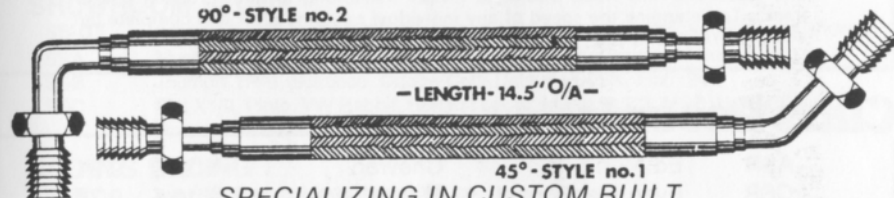
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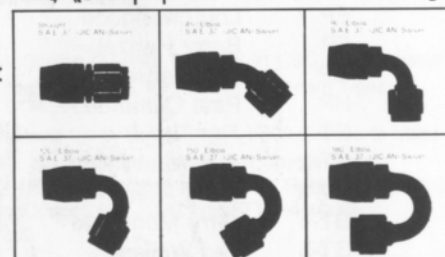
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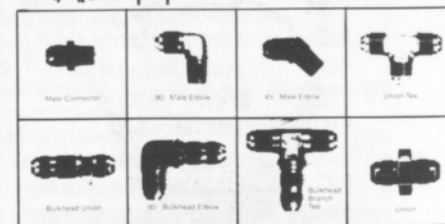


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## Average Lap Speed

Min/Sec	MPH	Min/Sec	MPH	Min/Sec	MPH
1:00	85.326	1:17	66.488	1:34	54.463
1:01	83.927	1:18	65.635	1:35	53.890
1:02	82.574	1:19	64.805	1:36	53.329
1:03	81.263	1:20	63.995	1:37	52.779
1:04	79.993	1:21	63.204	1:38	52.240
1:05	78.762	1:22	62.434	1:39	51.713
1:06	77.569	1:23	61.681	1:40	51.196
1:07	76.411	1:24	60.947	1:41	50.689
1:08	75.288	1:25	60.230	1:42	50.192
1:09	74.197	1:26	59.530	1:43	49.704
1:10	73.137	1:27	58.846	1:44	49.227
1:11	72.106	1:28	58.186	1:45	48.758
1:12	71.105	1:29	57.523	1:46	48.298
1:13	70.131	1:30	56.884	1:47	47.846
1:14	69.183	1:31	56.259	1:48	47.403
1:15	68.261	1:32	55.647	1:49	46.968
1:16	67.363	1:33	55.041		

The Waterford Hills Road Course is 1.4221 miles long (7,509 ft. center line of track). To determine the speed of any individual car, time it for one complete lap and read off the speed from this table.

## Class Records

ASR	Ed Murray	Chevron	1:10.9	9/81
CSR	Evan MacDonald	M-2	1:10.5	9/78
DSR	Ed Murray	Jedi	1:14.8	8/83
S/2000	Larry Campbell	Lola	1:11.5	9/79
EP	Lou Livengood	Porsche 356	1:16.3	6/80
FP	Barry Hartzel	MG Midget	1:16.2	7/78
GP	Kirk Carlson	MG Midget	1:17.0	8/81
HP	Paul Cameron	Sprite	1:20.4	7/78
GT-1	Tim Taylor	Corvette	1:13.7	9/83
GT-2	J. Byron Walker	Datsun	1:16.5	9/80
GT-3	Craig Allen	Lotus Elan	1:16.4	9/83
GT-4	Jerry Morlewski	Fiat 124	1:19.0	9/83
GT-5	Ted Wollesen	Mini Cooper	1:19.9	5/84
SS-GT	Bill Bayley	Firebird	1:24.5	5/84
SSA	Bobby Fehan	Mustang II	1:27.4	7/80
SSB	Charlie Henry	Charger	1:27.7	9/83
SSC	Ron Lindensmith	Fiat X1/9	1:29.6	9/82
FF	Vince Muzzin	Royale	1:09.4	6/78
FV	Lee McLeod	Lynx	1:15.7	7/81
**F/A	Andy Falbo	March	1:06.1	8/83
F/C	Charles Van Acker	Lola	1:09.8	8/79
F440	Greg Assenmacher	Stinger	1:19.0	7/80
F4	Stuart Lamont	Xpit	1:12.5	7/83
FFR	Mark Davidson	Crossle 32	1:17.0	5/84

\*\*track record

## Racing Classes

To insure fairness in competition, all road racing cars are grouped into racing classes by the Sports Car Club of America in its General Competition Rulebook (GCR). Waterford Hills Road Racing observes the GCR regulations with some minor exceptions.

The five Competition groups are: Production (sports cars), Showroom Stock (GT cars and sports cars with minimal modification), Sports Racing (Highly modified engine and body over wheels), GT (enclosed cockpit passenger cars and former big production cars), and Formula (open wheels single cockpit). Racing groups are subdivided into classes of equally competitive cars based upon engine size and handling characteristics.

The cars listed below are representative of their racing classes and include most of those you will see at Waterford Hills.

### PRODUCTION

EP	Porsche 356 series, MGB, Opel GT, Porsche 914/4, Triumph TR-4
FP	Saab Sonnet, MG Midget Mk III & IV, Lotus 7, Triumph Spitfire Mk III & IV & 1500
GP	MG Midget Mk I & II, Triumph Spitfire Mk I & II, MGA, Austin Healy Sprite, Fiat X1/9, Fiat 124 Spider, Alfa Romeo, Porsche Coupe
HP	Austin Healy Sprite Mk I & II, Fiat 850, MG Midget 948, Fiat Abarth

### SHOWROOM STOCK

SS-GT	new class with current model cars of SSA plus additional modifications allowed.
SSA	Mustang Cobra, Mazda RX series, Porsche 924, Capri V-6, Datsun 280Z
SSB	Triumph TR-8, Scirocco, Dodge Colt, Datsun 200SX, Fiat 124
SSC	Fiat X1/9, Pinto, VW Rabbit, Renault LeCar, Mustang 2.3, MGB, Honda Civic, Toyota Carolla, Pontiac Astre

### SPORTS RACING

ASR	over 1300 cc but less than 6000 cc
CSR	over 850 cc up to 1600 cc (with restrictions)
DSR	below or equal to 850 cc
S/2000	uses Ford 2000 cc overhead cam engines only

### GT CLASSES

GT-1	Corvette, Camaro, Ford Cobra II, Shelby GT-350, Porsche 911 SC, Dodge Aspen
GT-2	Datsun Z series, Mazda RX7, Porsche 914/6 & 924 Turbo, Sunbeam Tiger, Triumph TR-6 & TR-8
GT-3	Opel 1900, Datsun 510 1800, Mustang 2300, Pinto 2000 & 2300, Cosworth Vega
GT-4	Fiat 124 Sports Coupe, Pinto 1600, Toyota Celica, Dodge Colt, Toyota Carolla 1600, Renault LeCar, Datsun 510 1600, Ford Escort/Lynx, VW Rabbit & Scirocco
GT-5	Datsun 200SX, Austin/Morris Mini Cooper, VW 1300, NSU TT, Honda Civic, Fiat 124 1200, Toyota Carolla 1200

### FORMULA

FF	Formula Ford — Cortina or Pinto 1600 cc engine, strict weight to engine ratio with driver's weight included in total legal weight, very equal class
FFR	Formula Ford Radial — the cars are the same as the above class except they must use BF goodrich T/A radial tires.
FV	Formula Vee — all Volkswagen components, 1200 cc engine, driver's weight included in total legal weight, very competitive class
F/ATLC	Formula Atlantic — choice of engines in over 1100 cc up to 16000 cc range, wings and other modifications allowed, not meant to be an inexpensive race car
F/CNTL	Formula Continental — engine up to 1100 cc, rear wings allowed, combines the modifications of the previous Formula C and Formula Super Vee classes
F440	Formula 440 — utilizes Fuji two-cycle snowmobile engines and drive train, rigid suspension, wings permitted
F4	Formula Four — Canadian class, motorcycle engine power plant, engine size determines weight and transmission allowed



## Flags

**yellow with red stripes**



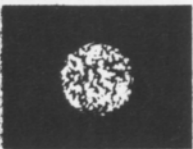
Take care, oil has been spilled or a slippery condition exists somewhere in your vicinity. Look at the track surface.

**black**



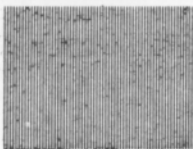
Sloppy or dangerous driving. Complete the lap you are on, stop at the Start/Finish line for consultation with Chief Steward. Waving Black Flag (displayed on all corner stations) means the race is stopped. Slow down immediately and proceed around the track with extreme caution to the pit lane for a re-start.

**black with orange ball**



(Meatball Black Flag) There is something mechanically wrong with your car. Proceed to your pits at reduced speed.

**green**



(Or no flag) Course is clear.

**yellow**



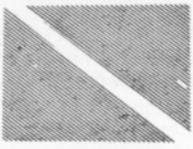
(Stationary) Take care, danger, no passing.  
(Waving) Great danger, be prepared to stop, no passing.

**red**



Waving red (displayed by the Starter only) means the race is stopped, slow down immediately and proceed around the track with extreme caution to the pit lane.

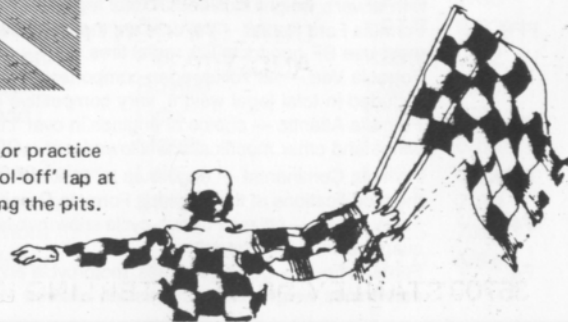
**blue with diagonal yellow stripes**



(Motionless) Another competitor is following you closely.

**checkered**

You have finished the race (or practice session). Complete one "cool-off" lap at reduced speed before entering the pits.



## GAVCO ASSOCIATES INC.

GAVCO Associates is a manufacturing and tooling consulting company specializing in Aircraft and Aerospace Programs. In addition to consulting, we have a group of companies providing design and building services for any size program.

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- ENGINEERING CAD/CAM
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- ELECTROFORM NICKEL TOOLS AND MOLDS
- NC MACHINING (CRITICAL FLIGHT PARTS)
- FIXTURE AND SPECIAL MACHINE BUILD
- FOUNDRY- ALUM. & STEEL
- PLASTIC TOOLING MATERIALS
- QUALITY CONTROL AUDITING

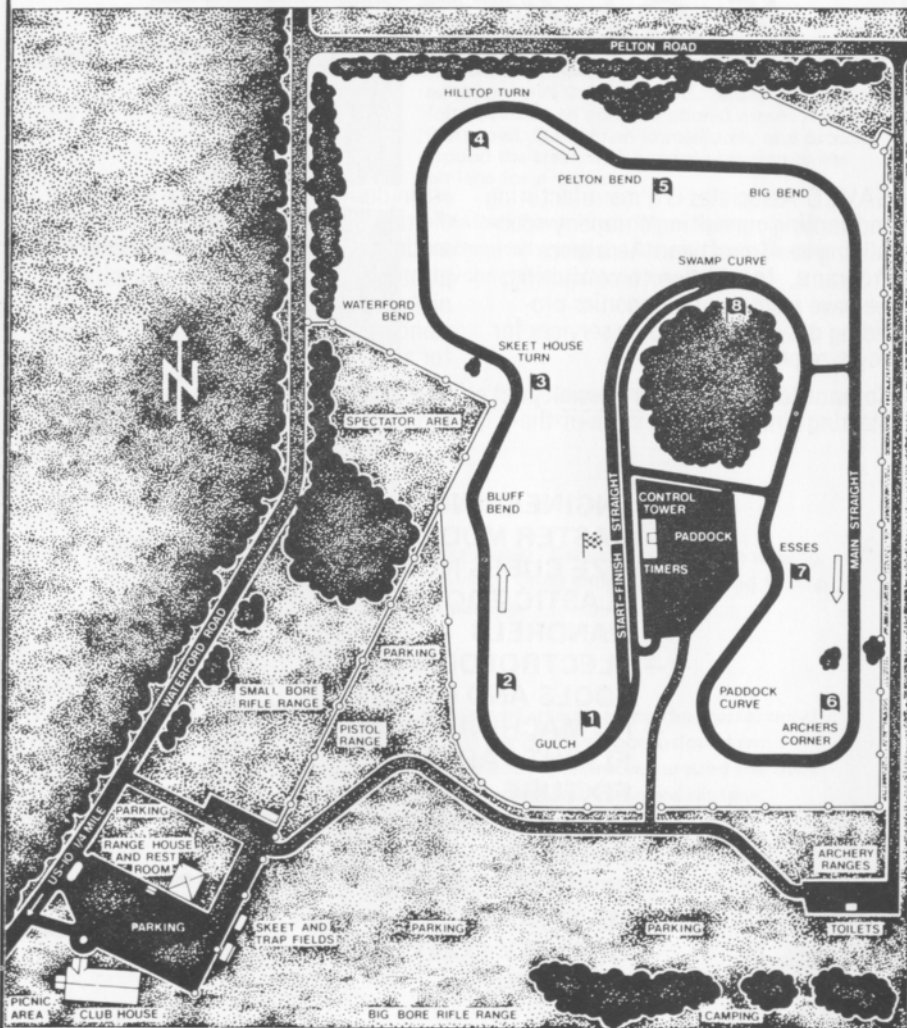
Gene A. Vaughn  
President

35700 STANLEY DRIVE STERLING HEIGHTS, MI 48077

# 1984 Waterford Digest

## Waterford Hills Course Map

a 1.5 mile  
asphalt road course  
at waterford,  
michigan



## Waterford Hills 1984 Road Racing Calendar Schedule

Race 1	May 5-6
Race 2	June 9-10
Race 3	July 7-8 GAVCO
Race 4	July 28-29 BF Goodrich
Race 5	August 25-26
Race 6	September 29-30 Mac Tool/Ford Motor Sport

### RACING RAIN OR SHINE

The hills of Waterford are being invaded . . . with an army of sports cars, sedans and formula cars in fierce, wheel to wheel competition . . . and for 1984 we've assembled the largest field in our 26 year history! Watch over 130 top drivers battle it out in the finest racing machinery from America and Europe. Corvette, Porsche, Datsun. Everything from Capris to Camaros, McLarens to MG's. All together, fighting it out on a mile-and-a-half track with 13 right and left turns that twist up and down hills like no other road course in the U.S.A.

### EASY ON THE WALLET

Admission is just \$3.00 for Saturday, \$5.00 for Sunday, or \$6.00 for the entire weekend. Children under 12 are always free and a Season Ticket is only \$20.00. The track opens at 10 a.m. for practice and qualifying. Racing begins at 1:30 p.m. on Saturday (seven races) and at 11:30 a.m. on Sunday (ten races). For more information phone (313) 623-0444.

### EASY TO GET TO

Chances are you live within a few minutes of the Midwest's premier road course. The W.H.R.R.I. Race Track is located just 6 miles north of Pontiac on Waterford Road, 1/4 mile east of Dixie Highway (U.S. 10) in Waterford, Michigan. The easiest route to take is I-75 to the southbound Sashabaw Exit. Take Sashabaw south to Pelton Road, then take Pelton west to Waterford Road. The total distance after exiting the expressway is 2-1/2 miles.

### THE WATERFORD DIGEST

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