

DELAWARE VALLEY BICYCLE CLUB

P.O. BOX 497 MEDIA, PA. 19063

JUNE 1990

FREE!

Energy for the Cyclist

By Amy Beaver, R.D.

In order to perform an aerobic activity such as cycling, energy is required. The possible sources of energy are protein, fat and carbohydrates (CHO). CHO are an energy friend to the cycler. During exercise, our bodies use CHO for immediate energy. By having a high CHO intake, you can postpone the time it takes to exhaust your energy reserves. (Ed: I hit this "wall" once at about 65 miles!)

If you are training for an endurance event, increase you CHO intake two to three days before the event. Also, slightly decrease your activity level. Some forms of complex CHO are breads, cereals, pastas, vegetables, rice and fruits. An athlete should consume 60-70% of their calories from CHO. An athlete who consumes 2,000 calories per day would need to get 1,200-1,400 of their calories from CHO. This means 300 to 350 grams of CHO. In order to determine grams of CHO, read the food labels. The labels list grams of CHO per serving. Furthermore, items such as the serving of fruit, contain 10 grams of CHO and one-half cup of vegetables contain 5 grams of CHO. One cup of milk supplies 12 grams of CHO. The lower the fat content of the milk, the more CHO it supplies.

High CHO foods are also good sources of Vitamin A, Vitamin C, Thiamin, Riboflavin, Fiber and Folacin. Whole fruits should be consumed in preference to fruit juices since the piece of fruit provides fiber.

	PRE-EVENT	DAY MEALS	
BREAKFAST	GRAMS CHO	DINNER	GRAMS CHO
Bagel	30	Baked chicken-3 oz.	
Jelly-1 teaspoon	5	Baked potato-1 medium	30
Banana-1 whole	20	Broccoli-1 cup	10
Oatmeal-1 cup	30	Orange-1 whole	10
Orange juice-1 cup	20	Dinner roll-1 small	15
Skim milk-1 cup	_12	Margarine-1 tablespoon	
regules. No objection in and for struction	117	Skim milk-1 cup	1 <u>2</u> 77
SNACK		SNACK	
Pretzels-1 oz. bag	15	Ice Milk-1/2 cup	15
LUNCH		Grand total (grams CHO)	329
Salad-2 cups vegetables	15		
Hot pasta-1 cup	15		
Meatless red sauce-3/4 cup	8		
French bread-2 slices	30		
Apple-1 whole	10		
Skim milk-1 cup	_12		
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Board of Directors

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Ride Coordinators

A/B Rides: Mike Keating

104 E. State St. Media, PA 19063

891-9098 FAX: 891-1897

C/D Rides: Doug Kennedy

913 Mt. Holyoke Pl. Swarthmore, PA 19081

543-4664

Please contact the Ride Coordinators before the 7th of each month.

DVBC Newsletter Staff

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Racing Editors . Frank Havnoonian
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Special Events Rich Patterson
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A/B Rides Mike Keating
C/D Rides Doug Kennedy
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DVBC

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DVBC P.O. Box 497 Media, PA 19063 Items for Sale & Ride Reports:

DVBC P.O. Box 497 Media, PA 19063

The views expressed in this publication are not necessarily the views of the Delaware Valley Bicycle Club, nor do we endorse products or services advertised.

Letters to the Editor must be signed to be considered for publication.

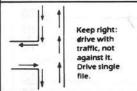
Club Merchandise

Club T-Shirts				J		\$6.00
Club Car Dec						
Club Bike De						
Club Water B						2.00
Club Patches						1.25

DVBC Meeting Place

Unitarian Universalist Church of Delaware County, 145 W. Rose Tree Road (near Rt. 252 & Rose Tree Park). First Monday of each month. Doors open at 7:00 P.M. Public is welcome.

Obey all applicable traffic regulations, signs, signals and markings.





Watch out for car doors opening or for cars pulling into traffic.





Protect yourself at night with the required reflectors and lights.



Use hand signals to indicate turning or stopping.

Ride Guidelines

- 1. Arrive 10 to 15 minutes early and be READY TO LEAVE ON TIME! Rides will start no more than 5 to 7 minutes late!
- 2. Make sure your bike is in proper working order BEFORE you arrive.
- 3. Carry a spare tube, patch kit, pump and water bottle.
- 4. Practice safety and obey all traffic laws.
- Wearing a helmet is usually not mandatory, but is encouraged. (A helmet is mandatory for all time trials and some Class A rides.)
- 6. Do not "bike off" more than you can do. Go on rides within your ability, interest and experience.
- 7. RIDE CLASSIFICATIONS:
 - CLASS D: For new, inexperienced riders or families: speed 5 7 mph, frequent stops, as few hills as possible.
 Group will wait for all riders. Mileage usually less than 10 miles, but longer distances permissible.
 - CLASS C -: For average riders: 7 8 mph, rest stops as needed. Group will wait for stragglers. Distance recommended: 10 – 30 miles.
 - CLASS C+: Also average riders: 9 10 mph, rest stops every 45 60 minutes. No obligation to wait for stragglers if cue sheets or maps are provided by the ride leader.
 - CLASS B -: For more experienced riders: 11 12 mph, stops every 15 20 miles. No obligation to wait for stragglers if cue sheets or maps are provided.
 - CLASS B+: For strong riders: 13 15 mph, stops every 20 30 miles. No obligation to wait for stragglers if cue sheets or maps are provided.
- CLASS A: For very strong riders: 16 20 mph, stops every 30 50 miles. No obligation to wait for stragglers if cue sheets or maps are provided.
- TIME TRIAL: Timed event. Again, you must obey all traffic laws. A hard helmet is mandatory. You must yield the right of way at all times. Club time trials should not be regarded as races, but as training rides.
- 8. Each rider assumes his/her own risk on all time trials and touring rides.
- 9. Those who ride ahead of the group are on their own ride.
- 10. Always notify the ride leader before leaving the group.
- 11. Ride leaders should adhere to the advertised speed of the ride.
- 12. Ride leaders are not expected to be bike mechanics.

NOTE: In the case of questionable weather or road conditions, the Ride Leader may decide to cancel the event. Call the Ride Leader if in doubt. All Club rides are rated according to degree of difficulty. If you're in doubt about your cycling ability, try out a ride one class below the one you're not sure about and then work your way up. The general public is invited to all events oprganized and conducted by Delaware Valley Bicycle Club. A program is presented by the Club for bicyclists of all ages, all abilities, and all interests. Except for the Freedom Tour, Brandywine Tour and Club picnic, all club events are free to the general public. The general public is welcome!

Ride Calendar

June 6 • Evening Miles: 15-20 • Class C Wednesday Evening "C"	Every Wednesday evening in June, Walter Linton will lead a class "C" ride for 15 to 20 miles. Probable starting point is the lower parking lot of the Clover Store on Baltimore Pike in Springfield. For more information call Walter at 328-2871.
June 10 • 9:10 A.M. Miles: 15-30 • Class B – <i>Park to Park</i>	Leave from Rose Tree Park (Rt. 252 just above Rt. 1) near the flagpole. NO stops are planned. There will be some hills! Led by Rich Patterson, Jim Nyborg, Bill Taylor and Spurge Miller. For more information call Rich at 622-2954.
June 10 • 10:00 A.M. Miles: 35-40 • Class C+ Springton Manor Farm	Meet at the E.O. Bull Building at Rosedale & High Streets in West Chester. Enjoy a scenic ride out to the Springton Manor Farm. Bring lunch to have along the way. For more information call Fran DeMillion at 431-2675.
	Anyone wanting to ride in West Chester after work should call Fran at the above number.
June 10 • 8:00 A.M. Miles: 5-20 • Class C – Rockin Chair Ride	With Mott - not as slow as tricycles, but pretty darn slow. We'll use local roads recommended by the Bicycle Commuter's Map, browsing along the way. Up to 99% humidity — we GO! Meet at Swarthmore train station. 3 hours or less (not all riding). Wear your \$!&* helmet. Doris Dickinson: 543-8431.
June 13 • Evening Miles: 15-20 • Class C Wednesday Evening "C"	Every Wednesday evening in June, Walter Linton will lead a class "C" ride for 15 to 20 miles. Probable starting point is the lower parking lot of the Clover Store on Baltimore Pike in Springfield. For more information call Walter at 328-2871.
June 16 • 10:15 A.M. Miles: 5 • Class: All Goshen Time Trial	Fathers' Day Eve TT. Meet (10:15 SHARP) at Providence Rd. just north of Goshen Rd. near the Radnor Hunt Club. Test yourself against the clock. Roads are NOT closed to traffic. Helmet required. Timekeeper: Ed Silcox. For more information call Rollin' Rich Patterson at 622-2954.
June 17 • 9:00 A.M. Miles: 50 • Class B – Ride to CoreStates	Meet at the Drexeline Shopping Center (State Rd. & Township Line, Drexel Hill) to ride to Valley Forge, then down the bike path to Manayunk to watch the some of the CoreStates race at "The Wall." Bring or buy lunch. For more info call Rich Bernhard at 284-2019.
June 17 • 10:15 A.M. Miles: 5 • Class: All Goshen Time Trial	Fathers' Day TT. Meet (10:15 SHARP) at Providence Rd. just north of Goshen Rd. near the Radnor Hunt Club. Test yourself against the clock. Roads are NOT closed to traffic. Helmet required. Timekeeper: Ed Silcox. For more information call Rollin' Rich Patterson at 622-2954.
June 17 • 9:00 A.M.? Miles: 156 • Class Pro Corestates U.S. Pro	THE biggest one-day bicycle race! Many of the top riders in the world will participate. Ten laps from the Art Museum to Manayunk ("The Wall") and back. Double check the starting time in the sports section the week of the race. Race runs a little over 6 hours.
June 20 • Evening Miles: 15-20 • Class C Wednesday Evening "C"	Every Wednesday evening in June, Walter Linton will lead a class "C" ride for 15 to 20 miles. Probable starting point is the lower parking lot of the Clover Store on Baltimore Pike in Springfield. For more information call Walter at 328-2871.
June 23 • Noon Miles: 12-15 • Class C – Beginner's Dirt Ride	Leave Swarthmore train station to ride through the Swarthmore College Woods to Smedley Park for a lunch stop. (Bring lunch!) This is a good ride for newer dirt bike riders. For more information (and to get all the latest dirt) call Doug Kennedy at 543-4664.
June 24 • 9:10 A.M. Miles: 15-30 • Class B – Park to Park	Leave from Rose Tree Park (Rt. 252 just above Rt. 1) near the flagpole. NO stops are planned. There will be some hills! Led by Rich Patterson, Jim Nyborg, Bill Taylor and Spurge Miller. For more information call Rich at 622-2954.
June 24 • 10:00 A.M. Miles: 35-50 • Class C+ Lancaster County	Father's Day Ride. (Dad had to wait because of the CoreStates Race.) Meet at PSFS in front of Granite Run Mall at 10:00 to car-pool to the starting point. There will be hills (more down than up) and be sure to bring lunch. Call Sarah Shirk (985-9335) or Annie Fetter (543-5107).
June 24 • 11:00 A.M. Miles: 30 • Class C+/B- Singles Only	Goshen-Malvern. Leave from Daley's Restaurant parking lot (W. Chester Pk. & Providence Rd. in Edgemont). Join other single bikers for a tour of the beautiful horse farms of the area. Possible snack stop after ride. Bob Wright (623-8373) or Karen (626-2335).
June 27 • Evening Miles: 15-20 • Class C Wednesday Evening "C"	Every Wednesday evening in June, Walter Linton will lead a class "C" ride for 15 to 20 miles. Probable starting point is the lower parking lot of the Clover Store on Baltimore Pike in Springfield. For more information call Walter at 328-2871.
July 1 • 10:15 A.M. Miles: 5 • Class: All Goshen Time Trial	Meet (10:15 SHARP) at Providence Rd. just north of Goshen Rd. near the Radnor Hunt Club. Test yourself against the clock. Roads are NOT closed to traffic. Helmet required. Timekeeper: Ed Silcox. For more information call Rollin' Rich Patterson at 622-2954.
July 1 • 2:15 P.M. Miles 20-30 • Class C Richmond's Ice Cream	Meet at Kingsway Regional High School (Rts. 322 & 551 - 2nd light past Com. Barry Bridge) in New Jersey. Enjoy an easy-paced ride to the ice cream shop. For more information call the Terrible Tandem/ Trailer Team — the Pattersons at (215) 622-2954.
July 4 • 9:00 A.M. Miles: 35-40 • Class C + Red Bank	Leave from the Bridgeport (NJ) School (cross Com. Barry Bridge to Rt. 130 N., make first right onto Barker Ave. and next right on Rt. 44). Bring lunch for a flat ride to Red (White and Blue?) Bank in National Park, NJ, Lunch stop overlooks the Delaware River and Phila, Doug Kennedy: 543-4664.

National Park, NJ. Lunch stop overlooks the Delaware River and Phila. Doug Kennedy: 543-4664.

Red Bank

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A BIKE SHOP LIKE NO OTHER!

over 500 bikes in stock • 7000 sq. ft • 5 full time mechanics • test rides & trade ins • car racks (6 models) • computers • tools • clothing • exercise equipment • books & maps • all brands repaired •

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June

8-11 Friday-Monday

New London, Conn.; GEAR '90; L.A.W. annual rally; rides of various lengths, workshops, exhibits, fun; Coalition of Conn. Bicyclists and L.A.W.; (800) 562-BIKE, (800) 462-BIKE (in Conn.).

9 Saturday

Middleboro, Mass.; Tour De La Femme; 9 a.m. at Middleboro Crossing (Rt. 28/105); 12-38 mi.; flat; \$1; incl. map, route markings; Mass. Bay Road Club, Craig Lindsey, 26 Columbia Circle, Plymouth, MA 02360; (508) 747-3221.

Pennsville, N.J.; Get Ready Metric Century; 8 a.m. at Fort Mott; 33, 66 mi.; flat; \$7 till June 2, then \$9; incl. map, patch, sag, lunch; South Jersey Wheelmen, Scott Medaugh, 122 Delaware St., Woodbury, NJ 08096; (609) 848-5038.

10 Sunday

Hagerstown, Md.; Scenic Western Maryland Century; 7 a.m. at Williamsport H.S.; 50, 63, 100 mi.; mod. hilly; \$5 till June 2, then \$7; incl. map, snacks; helmet required; Cumberland Valley Cycle Club, Paul Oberg, P.O. Box 711, Hagerstown, MD 21740; (301) 797-6531.

Philadelphia, Pa.; Freedom Valley Bicycle Ride; 9 a.m. at Eakins Oval, Benjamin Franklin Pkwy.; 6, 16, 37, 60 mi.; flat to mod. hilly; \$10; incl. map, sag, route markings, snacks; B.C. of Philadelphia, Tim Carey, P.O. Box 30235, Philadelphia, PA 19103; (215) 440-9983.

16 Saturday

Chesapeake City, Md.; Maryland-Delaware Flatlands Tour; 8 to 10 a.m. at Bohemia Manor H.S.; 28, 50, 100 mi.; flat; \$3; SASE to Baltimore B.C., Mary Gordon, 1519 Shadyside Rd., Baltimore, MD 21218; (301) 235-9156.

17 Sunday

Willow Grove, Pa.; River to River Century; 7 a.m. (100 mi.), 8 a.m./25-50 mi. at AMH Health Center; 25, 50, 100 mi.; flat to mod. hilly; \$6 till June 16, then \$8; incl. patch, sag, route markings, food, cue sheet; helmet recommended; Suburban Cyclists Unlimited, Emerson Custis, 300 Hatboro Pike, Apt. Ax11, Hatboro, PA 19040; (215) 277-8689.



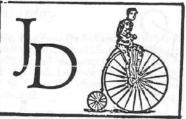








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Please add	me to the Hospitality	
Too deduce	ctible contribution to the	e Bicyclists'



THE JERSEY DOUBLE 200-Mile Bicycle Tour

Western Jersey Wheelmen

June 23, 1990

Sag, cue sheets, marked route.

For more information contact:

Mike Bohrer 267 Dreehook Rd. Lebanon, NJ 08833

(201) 236-9619 (eve.)

22-24 Friday-Sunday

Watkins Glen, N.Y.; Great Finger Lakes Bicycle Tour-X; a.m. at Watkins Glen State Park; 47, 63 mi.; mod. hilly; \$35; incl. map, sag, lodging, water bottle, souvenir; helmet required; Southern Tier B.C., A. Mueller, 4009 Drexel Dr., Binghamton, NY 13903-3442; (607) 722-6005.

23 Saturday

Oldwick, N.J.; Jersey Double; 4:45 a.m. at Exit 24/1-78; 200 mi.; rolling to mod. hilly; \$15; incl. map, sag, route markings, snacks, T-shirt, certificate; Western Jersey Wheelmen, Mike Bohrer, 267 Dreahook Rd., Lebanon, NJ 08833; (201) 236-9619.

23-24 Saturday-Sunday

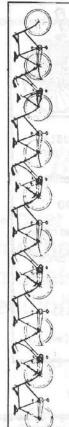
Allentown and Reading, Pa.; PA Dutch Cycling Extravaganza MS 150 Bike Tour; 7 a.m. at Lehigh Valley velodrome & Exeter Jr. H.S.; 150 mi.; flat to mod. hilly; \$20; incl. map, sag, route markings, snacks, lodging, baggage shuttle, Tshirt, souvenir; helmet required; Lehigh Wheelmen, Marylynn Burtain, National MS Society, Ste. 3E, 1444 Hamilton St., Allentown, PA 18102; (215) 821-8360.

24 Sunday

Elmore, Ohio; Portage River Tour; 7:30 a.m. at Woodmore H.S.; 10, 25, 31, 62, 100 mi.; flat; \$6 till June 19, then \$8; incl. map, patch, sag, route markings, snacks; Toledo Area Council/AYH, Ray Squire, 1333 Thatcher Dr., Toledo, OH 43606; (419) 243-7680.

Betterton, Md.; 5th Annual Bay to Bay Ride; 7 a.m. at public beach; 72, 86, 107 mi.; flat; \$6 till June 11, then \$8; incl. map, patch, sag, route markings, snacks, swim; helmet required; Eastern Shore Velo Club, P.O. Box 393, Centreville, MD 21617; (301) 778-4881.

June 24 13th Annual Raritan Valley Round-Up; 25, 50, 62, & 100 mi. SASE to Central Jersey Bicycle Club, P.O. Box 2202, Edison, NJ 08812



FREEDOM VALLEY

RIDE * * BIKE E-A-THON * * now \times

o rain SUNDAY JUNE 10, 1990

miles, with food and rest stops. ride, not a race. 62 0 35,

bike path Fairmount Park er County. Return to Philadelphia on tne the Schuylkill river, now almost complete scenic historic Center City and Forge. Chester Valley along

slightly 25 donation RIDE t-shirt. the path. (and a pre-registrants with a \$25 FREEDOM BALLEY BIKE RID donations higher registration fee), to fund the rest of their since most On pledges, we are counting a will receive THIS YEAR Note the new NEW

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925-6005 pe registration form, call lead the Forge will Valley 0 a route for volunteer, or long

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Contributors of \$100

BICYCLE BLUE ROUTE

been ten years; why isn't it done YET??? Because...each ion, be it along a stretch of Conrail or SEPTA railway, or backyard, or a business property, or a park, or driveway, needs separate negotiations to purchase the land (if we concern of neighbors from Multiply cooperation to obtain right-of-way. the and efforts by the need to get acceptance and borough along the route. Local politics and about the type of people the path will att traffic and safety are big issues. or it donated) or or street, needs can't get it do tiny section, be it's

politicking. Anounce politicking. Forge, and ser Conshohocken. Montgomery completed. Over the community through Please rhis Thorpe June 15th --17th Jim Thorpe, Hugh Hackett (215)948-

Officials: Montco is closer to having 17-mile bikeway

By Jerry W. Byrd

More than a decade after buying the right-of-way, Montgomery County officials say they are ready to move ahead with plans for a 17-mile jogging, hiking and riding trail in the central part of the county.

The commissioners yesterday scheduled a June 12 public meeting to discuss conversion of the old Reading railroad right-of-way to the Perkiomen Rail Trail.

The mood has changed, and there's a sense that it's something we should do," Commissioners Chairman Paul B. Bartle said.

The commissioners said it was still too early to estimate the cost of conversion. The trail, 60 feet wide in some places, is partly overgrown with trees and bushes, officials said.

The tracks were removed in 1977. When completed, the trail would touch 10 communities between Pennsburg in Upper Hanover Town-ship and Collegeville in Lower Providence and be among the longest trails of this type in Pennsylvania, county planner John Wood said.

Eventually, it may be linked to the Philadelphia-Valley Forge Bikeway, providing a continuous trail between Center City and Pennsburg, Wood said.

"We've looked at a lot of different scenarios," Wood said. "We think a

unified trail is the best."

Other than several planning presentations — and complaints from residents about noisy beer parties — not much has happened with the right-of-way since the county bought

The county paid the Reading rail-road \$120,000 for it. Conversion to a road \$120,000 for it. Conversion to a biking trail, however, proved more difficult than expected, said Rita C. Banning, the Democratic minority commissioner.

Besides facing opposition from some residents, the county also ran into a legal tangle over its rights to the property. Reading owned about 15 percent of the land outright. The remainder of the right-of-way had been acquired through easements. County solicitor Frederic M. Wentz

said that some of the agreements dated to the 1800s and that heirs must be located for each parcel.

Banning said the Perkiomen Rail Trail "just seemed like a wonderful idea at the time. The complications

weren't immediately apparent."

Bartle said issues such as police and litter patrols, bridge repair, and grading also must be worked out.
"It's going to take some time," he

The hearing will be held at 7 p.m. June 12 in the auditorium of Perkio-men Valley High School, Route 29, Perkiomen Township.

Consumer Reports / Editor's digest

CoreStates

As the bicycling season approaches, now's the time to shop for a bike helmet. Once cursed with a nerdy image, bike helmets are becoming more popular as cycling's colorful Lycra style makes its way from the racing velodrome to the streets. That's good news, since wearing a bike helmet can reduce the risk of a head

June__17th

injury by 85 percent. Today's bike helmets have come a long way since the leather "hairnets" that passed for head protection just a few years ago. When those leather helmets were shown to be ineffective, manufacturers came up with a design that combines a hard plastic or fiberglass shell with a liner of expanded polystyrene foam, similar to the plastic foam that protects VCRs and TVs in their shipping boxes. The lightweight material crushes on impact, thus absorbing the shock that would otherwise be transferred to the wearer's head

Another variation of the helmet has done away with the shell, which reduces the weight by up to half. Instead, the foam is wrapped in a Lycra cover. On these noshells, the cover is there for appearance, but it may also protect the head after the initial blow by holding broken helmet pieces together. Some no-shell helmets have plastic or nylon reinforcement molded

into the foam to add strength.

A third type aims for the durability of the hard-shell helmet and the light weight of the helmets without shells. These socalled thin-shell helmets have a thin,

USPRO Championship,

Jim Castellan.

"If Board member, who started running the FVB Len.

home, has been dauntless in keeping this effort going.

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In his home, has been dadner, the first year he will not ce Wells are co-directing)

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a section is finally acquired and approved, it has to-e scheduling, bidding and contracting process required County. This can take from a few months to a few years.

a section is finally acquired and scheduling, bidding and contracti

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light, semi-rigid plastic shell. Consumer Reports' testers found that as a group the no-shell models performed better overall than other types. Top-rated were the no-shell Bell Quest (\$51) for adults; the no-shell Bell Streetrider (\$34) for children ages 6 to 12; and the thin-shell Bell L'il Bell Shell II (\$37) for kids under

But there are brands other than Bell that would make a good choice, too. The Performance models, available primarily by mail, cost only \$30 to \$40, plus shipping. (If you buy by mail, make sure you can return the helmet if it doesn't fit.) The high-rated Paramount Team Issue is available only through Schwinn dealers.

These helmets were judged "not acceptable" because they failed the testers' roll-off resistance test: the Avenir (hardshell), the Avenir Advantage (no-shell), the Monarch Aero-jet (hard-shell) and the Spalding Youth 82518 (thin-shell).

When buying a helmet, make sure it's labeled to meet the standards set by the American National Standards Institute (ANSI). If it has the green sticker saying the helmet is certified by the Snell Memorial Foundation, that's even better. The Snell standards are more demanding. One more point: A helmet is a one-shot

item. Once it's been damaged in an accident, or in any other way, you should replace it even if the damage isn't obvious.

July

1 Sunday

Port Penn, Del.; Delaware Doublecross; 10 a.m. at Augustine Beach; 28 mi.; flat; \$4.50 till June 26, then \$5; incl. map, patch, sag, route markings; White Clay B.C., John DeGood, P.O. Box 294, Yorklyn, DE 19736; (302) 239-6034.

Belleville, Ill.; Firecracker 100; time n/a; 100 mi.; flat to rolling; \$6 AYH mbr., \$8 non-mbr. till June 22, then \$8 and \$10; incl. map, sag, route markings, snacks; T-shirt avail.; helmet required; Ozark Area Council/AYH, Sheri House, 7187 Manchester, St. Louis, MO 63143; (314) 644-4660.

4-8 Wednesday-Sunday

Slippery Rock, Pa.; L.A.W. National Rally; sponsored by L.A.W., Outspokin' Wheelmen, and the Western Pennsylvania Wheelmen; rides of varying lengths; pre- and post-tour packages; one-day and weekend registration possible; workshops, exhibits; see articles in 1990 Almanac and March/April issue; 1990 L.A.W. National Rally, P.O. Box 838, Youngstown, OH 44501; last minute hotline, (412) 452-0403.

7 Saturday

Hell, Mich.; One Heuluva Ride; 6:30 a.m.; 35, 50, 74, 100 mi.; flat to rolling; \$12 till June 23, then \$16; incl. map, patch, sag, route markings, snacks; Ann Arbor Bicycle Touring Society, Ed Steinman, P.O. Box 2854, Ann Arbor, MI 48106.

Bay City, Mich.; Liberty Tour '90; 6 a.m. at Bay County Comm. Cntr.; 16, 38, 62, 100 mi.; flat; \$8 till June 27, then \$10; incl. map, patch, sag, snacks, salad bar, swimming, showers; Tri-City Cyclists, Steve Skillman, P.O. Box 2156, Bay City, MI 48707; (517) 892-2100.

8 Sunday

St. Louis, Mo.; Leonard Leighton Memorial Bicycle Poker Ride; time n/a at Jamestown Mall; 15, 25 mi.; flat to rolling; \$4 AYH mbr., \$6 non-mbr.; incl. map, sag, route markings; helmet required; Ozark Area Council/AYH, Sheri House, 7187 Manchester, St. Louis, MO 63143; (314) 644-4660.

Tonawanda, N.Y.; Vern Rischard Memorial M.C.; 8 a.m. at Lincoln Park; 62 mi.; flat; free; incl. map, snacks, after ride picnic; helmet required; SASE to Big Wheels B.C., Dick Spengler; 22 Amber St., Buffalo, NY 14220.

Kent, Ohio; Circle Akron Ride; 6:30 at Dix stadium; 25, 62, 100 mi.; rolling to mod. hilly; \$10 till July 2, then \$15; incl. map, patch, sag, route markings, snacks; SASE to Akron B.C., Tom Baughman, 2135 Gates Ave., Streetsboro, OH 44241; (216) 626-2664.

Glasgow, Del.; WCBC/FSVS Double Century; 5 a.m. at People's Plaza Shopping Cntr.; 200 mi. (16-hr. limit); flat; \$11 till June 24, then \$13; incl. map, sag, route markings, snacks, T-shirt; White Clay B.C., Nancy Estilow, 1124 12th Ave. Murray Manor II, Wilmington, DE 19808; (302) 994-9161.

Plymouth, Mass.; Mystery Tour; 9 a.m. at W. Elementary School; 30 mi.; flat to rolling; \$1; incl. map, route markings; tailgate party(BYO); helmet required; Mass. Bay Road Club, Craig Lindsey, 26 Columbia Circle, Plymouth, MA 02360; (508) 747-3221.

14 Saturday

Sewell, N.J.; Road Runner; 7:30/100 mi., 8:30/50 mi., 9:30/25 mi. at Gloucester County College; 25, 50, 100 mi.; flat; \$8 till July 7, then \$10; incl. map, patch, sag, route markings, lunch; South Jersey Wheelmen, Dewey Parker, Box 6, Wenonah, NJ 08090; (609) 468-1776.

Blue & Gray Gettysburg College, Gettysburg • Info: Bike Fed, (717) 761-3388 • Fee: "Inexpensive"

July 13-15

Super French Century

Central Bucks County • Info: (215) 847-5709 • Sponsor/Organizer: Suan French • More: tough 110 miles

July 14

CENTRAL BUCKS BICYCLE CLUB Sponsors the

FIFTH ANNUAL SUPER-FRENCH IRONMAN CENTURY

When: Saturday, July 14

Rain date: July 15

Where:

Ride begins and ends at the boat ramp at Peace Valley Park, Creek Road, Doylestown Township

Time:

Registration from 7:30 - 8:15 a.m.; ride begins promptly at 8:30 a.m.

Cost:

\$9.00

Lunch stop will close at 1:30. Ride must be completed by 6:30.

This ride is billed as the "most grueling ride on the East Coast" and features 110 miles of the toughest hills in Bucks County (and only one traffic light).

Every rider completing the "Ironman" will receive a certificate and medal.

SERVICES: Lunch and two food stops plus leftovers at the end of the ride. Maps. Roads will be clearly marked with an Eiffel Tower. Sag wagon is provided.

FURTHER INFORMATION: Susan and Larry French, P.O. Box 1, Ottsville, PA 18942. Phone: (215) 847-5709. If you need a map and/or more information, please enclose a S.A.S.E.



21 Saturday

Annville, Pa.; Tour De Lebanon Valley (new route); 8-9 a.m. at Cleona H.S.; 62 mi.; rolling; \$5 till July 20, then \$7; incl. map, patch, sag, snacks; helmet required; Lebanon Valley B.C., Bob Morris, Rt. 1, Box 153, Womelsdorf, PA 19567; (215) 589-2802.

Wakefield, Mich.; North Country 100 Bicycle Tour; 7 a.m. at Indianhead Mt.; 25, 62, 100 mi.; rolling to mod. hilly; \$15 till July 1, then \$20; incl. map, sag,route markings, snacks, T-shirt; helmet required; N. Country Wheelmen, Connie Loden, 500 Indianhead Rd., Wakefield, MI 49968; (906) 229-5181.

21-22 Saturday-Sunday

Buffalo, N.Y.; Metzler/Marquarte Century Weekend; 7 a.m.; 25, 50, 62, 100 mi.; flat; free; incl. map, sag, route markings; Niagara Frontier B.C., Jim Vozga, P.O. Box 211, Buffalo, NY 14226; (716) 626-0597.

22 Sunday

White House, Ohio; Metro Park Bicycle Tour; 8 a.m. at Middle School; 62 mi.; flat; \$5; incl. map, patch, sag, snacks; Toledo Area Council/AYH, Richard Hayes, 3440 Larkin Dr., Toledo, OH 43623; (419) 474-0267.

Bourne, Mass.; Woods Hole Tour; 8:30 a.m. at Bourne H.S.; 22, 60 mi.; flat to rolling; \$1; incl. map, route markings; helmet required; Mass. Bay Road Club, Craig Lindsey, 26 Columbia Circle, Plymouth, MA 02360; (508) 747-3221.

Get ready for hot weather!

BICYCLE USA

28 Saturday

Stockton Bicycle Club

Mattoon, Ill.; Ride Around Mattoon For A Bagel (RAMFAB); 6:45 a.m. at Amtrak; 25 mi.; flat; \$5; incl. map, patch, sag, route markings; Central Illinois Cyclists, D. MacGibbon, 1021 Wabash, Mattoon, IL 61938; (217) 258-6167.

29 Sunday

Sergeantsville, N.J.; Deer and Dog Dodging Double; 7-8 a.m. at Delaware Township, school route 604; 53-212 mi.; flat to hilly; \$6 till July 28, then \$8; incl. patch, sag, route markings snacks, cue sheet; helmet required; Suburban Cyclists Unlimited, Emerson Custis; 300 Hatboro Pike, Apt. A-11, Hatboro, PA 19040; (215) 957-0967.

29 LAZY DAY CENTURY Sponsored by Tri-County Pedalers, P.O. Box 341, Royersford, PA 19468, Contact Greg Kulp at (215) 367-5610. 1990 4TH ANNUAL BIKE-A-THON
SPONSORED BY SUNSHINE FOUNDATION/BUX-MONT CHAPTER
4 VIETNAM VETERANS OF AMERICA/BUCKS COUNTY CHAPTER 210

On July 21, 1990, the 4th Annual Bike-A-Thon will take place to raise funds to support both the Sunshine Foundation's efforts in making the dreams of less fortunate children come true, and the many worthwhile programs of Wietnam Veterans of America on a local level.

Registration is \$15.00 per entrant. All registration fees are due no later than July 14, 1990; please make checks payable to: "SF/VVA BIKE-A-THON" and enclosed with the tear off registration form below.

All participants receive a Bike-A-Thon Tee Shirt Collect the amount listed below and also receive: 8150 Bicycle Gloves \$300 Sony Walkman

\$600 \$1200

Sharp Desktop Calculator \$100 Gift Certificate to the Bucks County Restaurant of your choice

TOP FUND RAISER OVER \$1200 RECEIVES A BICYCLE FROM BIKE TECH IN

AWARDS

Trophies will be given in the following categories:
Top Fund Raiser Fund Raisers over 8500
Youngest to Complete Ride
School or Business that Raises Greatest Amount

For further information contact Susan Karpuk/Sunshine Foundation at 355-9273 or Lu Bates/Vietnam Veterans of America at 348-3519

1990 4th ANNUAL BIKE-A-THON REGISTRATION FORM

Name Age Phone State Zip School or Company Tee-Shirt Size S M L XL WAIVER OF RESPONSIBILITY: In participating in this Bike-A-Thon, I for myself, my executors, administrators and assigns do hereby release and discharge Sunshine Foundation and/or Vietnam Veterans of America and all sponsoring businesses and organizations and their agents from all claims of damage, demands, actions and causes of action whatsoever, in any manner, arising or growning out of my participation in this event. I also give full permission for use of my name and photograph in connection with this event.

Signature (Parent/Guardian if under 18

MAIL WITH REGISTRATION FEE OF \$15 TO: 4th ANNUAL BIKE-A-THON 19 N. Kitty Knight Drive Churchville, PA 18966

ABOUT THE '90 BIKE-A-THON ...

Anyone 12 years of age or older in good health and with a blocycle in good repair is welcome to participate. Persons under the age of 18 require the signature of a parent or quardian.

A 30-mile bike ride throughout the panoramic Bucks County countryside.

The Bike-A-Thon will begin at Maennechore Field on Cold Spring Creamery Road in Doylestown off

Saturday, July 21, 1990, rain or shine. Registration begins at 8:00 a.m.; the bike ride begins at 9:00 a.m.

The proceeds of the '90 Bike-A-Thon will be equally divided between the Sunshine Poundation and the Bucks County Vietnam Veterans of America.

Register with the enclosed Registration Form and your check for \$15.00 made payable to "SF/VVA Bike-A-Thon" no later than July 14, 1990.

Complete the reverse side of this form, obtaining as many sponsors as possible; you may photocopy if additional space is needed for sponsors. Bring your Sponsor Form(s) to Maennechore Field at 8:00 a.m. on the 21st of July.

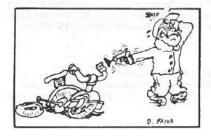
RIDE ON THE RIGHT SIDE OF THE ROAD - GIVE HAND SIGNALS AT ALL TURNS - OBEY ALL TRAFFIC SIGNS & SIGNALS - USE COMMON SENSE AT ALL TIMES!!!!

MOST OF ALL, HAVE FUN! YOU'RE BIKING FOR A GOOD CAUSE -THOSE WHO SERVED AND THOSE WE SERVE

Be a Well Dressed Cyclist-

Wear a Helmet





Thursday, May 10, 1990

WHO . . .

WHAT ...

WHERE...

The Philadelphia Inquirer

American to bike the Great Wall

By Kathy Wilhelm

BEIJING - Foreigners have riden horses and danced classical ballet atop China's Great Wall, and yesterday a California man set out to become the first person to bicycle from one end to the other, about 3,700 miles.

"Like Mao said, 'You're not a man until you've reached the top of the Great Wall," Kevin Foster said.

Maybe if the late revolutionary leader Mao Tse-tung were still around, Foster, 30, a part-time actor from Ojai, Calif., might have gotten op the wall sooner. He spent years trying to persuade Chinese authorities to approve his plan, and several more trying to find financial sponsors in the United States.

The last hitches were smoothed out late last year, and Foster boarded train yesterday for the western nountain pass where the wall starts a Jiayuguan, 945 miles from Beijing. He will begin his trek later this

From there, the fragmented remains of the more than 2,000-year-old wall snake through desert and mounthins before reaching the sea at Shanhaiguan, east of Beijing. Alto-gether, it covers about 3,700 miles. Over the years, the wall has attracted foreigners with strange ideas. Besides riding horses and balfet dancing, they have performed concerts and held cocktail parties on the wall, originally a symbol of China's desire to keep out the world and now simply a symbol of China.

An Englishman ran the length of the wall in 1987. Others have ridden bicycles beside it. But so far, despite



hundreds of millions of Chinese relying on bicycles as their only means of transportation, no one has ridden a bicycle on top of the wall its entire

"Everyone wants to be first at something," said Foster, who said he got the idea as a child when he saw television coverage of former President Richard M. Nixon visiting the Great Wall in 1972.

Foster, who has a short, tousled ponytail, handlebar mustache and hyperkinetic personality, said his hosts at the Academy of Science's Institute of Geography call him "that crazy American.'

Last November, he rode the New York subway system for 85 continuous hours to get into the Guinness Book of World Records.

Riding the wall on his mountain bike will be tough. The wall never had an even surface, and the centuries have not been kind. Many portions have steep stairs or slopes, others have been reduced to rubble. In some places, the wall has disappeared altogether due to the ravages of invading armies, weather and farmers who steal bricks for their homes.

At those parts, Foster and his Chinese entourage will travel in jeeps. In fact, Zhou Yu, one of two young staffers the Institute of Geography assigned to bicycle with Foster, said he thought much of the trip might best be made in jeeps.

"I know there are some parts we'll look at and say, "There's no way we can bicycle it." If we can just walk it, I want to walk."

The army has refused to let the group even drive near one long stretch of the wall immediately west of Beijing because it is near military installations. Instead, they will detour around the area on train and resume bicycling at Beijing.

From there to the sea, Foster said he expected the smoothest biking because many sections had been renovated for tourists.

The whole journey will take about seven weeks. Foster estimated. It is costing him \$20,000, the fee charged by the institute for making all arrangements. Foster said he would pay it in part with \$15,000 he ex-pected to receive from a U.S. helmet manufacturer for wearing its prod-

"I can't wait to get it done so I can get on with the rest of my life," he said. "I'm already planning my next project. It will be even bigger.'

BICYCLE FRAME DESIGN CONSIDERATIONS

Definitions

Stiffness as applied to bicycle frames can be simply defined as the ability to resist deflection. A frame that does not deflect or flex very much for the amount of force applied to it (relative to other frames) is stiff.

Strength can be simply defined as the ability to resist permanent deformation or breakage. A frame that undergoes a great deal of force in an accident and does not sustain breakage or permanent deformation is relatively strong. Note that stiffness and strength are not the same thing. A fishing pole is an example of something that is relatively strong (it requires a lot of force to permanently deform or break it) but not very stiff (it deflects easily).

Density is the weight per unit volume of a substance. For example, aluminum is much less dense than lead.

Material Properties

Materials used in the construction of bicycle frames have varying strengths, stiffnesses (Moduli of Elasticity), and densities which are well documented and can be easily reviewed.

Stiffness to Weight Ratios

All steel alloys have virtually identical densities - .284 lbs./cu. inch. The Moduli of all steel alloys are also virtually identical - 30×10^6 psi. It is surprising to most cyclists that all steels have the same stiffness to weight ratio whether it is Reynolds 753, 531, Columbus or gas pipe. All the sales hype in the world can not change this fact. The strengths of steels vary tremendously, but strength does not affect the riding characteristics of a frame. Sufficient strength is required however, to prevent failure--i.e., permanent bending or breaking of the frame.

All aluminum alloys have virtually identical densities - .097 lbs./cu. inch and all have virtually identical Moduli - 10×10^6 psi.

All titanium alloys have virtually identical densities - .162 lbs./cu. inch and all have virtually identical Moduli - 15×10^6 psi.

Boron in fiber form has a density of .089 lbs./cu. inch and a Modulus of 58×10^6 psi.

Using the formula (10⁶ lbs./sq. inch)/(lbs./cu. inch) we get the following relative stiffness to weight ratios. The higher the number, the better the material is. Steel - 105.6. Aluminum - 103.1. Titanium - 92.6. Boron Fiber - 651.7. Steel, aluminum or titanium have similar stiffness to weight ratios as raw materials. Boron is about six times better. As we will see later, however, other aspects of the design of the structure will decrease the utility of boron and show aluminum to be a better material than steel.

Strength to Weight, Ratios

Within each materials group strengths vary a great deal. Factors such as brittleness, stress corrosion, unbrazability and unweldability make the highest strength alloys unuseable, unsafe or difficult for bicycle frame construction. The steel, aluminum and titanium alloys used to make bicycle frames are not the strongest alloys available but are often the strongest alloys practicable. Reynolds 531 has a yield strength of 120,000 psi. Reynolds 753 is 150,000 psi. However, yield strengths are about two thirds these figures at the lugs where brazing heat weakens the tube, thus steel tubes may be butted at these points. Thicker material makes up for the loss of strength.

Useable and safe aluminum alloys run 40,000 to 50,000 psi. Remember that aluminum is one third the density of steel so the 50,000 psi alloy is as strong as an equivalent weight of 150,000 psi steel. If the aluminum frame has welded and subsequent heat treated construction the weld zones retain their 50,000 psi strength making them about 50% stronger than the braze zones on a 150,000 psi steel frame - on a per weight basis.

Commercially pure titanium has a yield strength of 75,000 psi. Titanium is one half the density of steel so commercially pure titanium is as strong as an equivalent weight of 150,000 psi steel. The strength loss in the weld zones of pure titanium is small.

Boron in fiber form has a very high strength. However, fiber materials such as boron and graphite have good properties only along the axis of the fibers, not in the other two directions and in the special case of graphite, only in tension. More over, the epoxies used to bond the composite tubes into metal lugs on most composite frames are not of high strength, thus providing a weak link. We prefer to view the high Modulus fibers as a stiffening aid instead of taking chances on them as a load bearing structure. In the case of the Klein, boron is used to increase the stiffness of the aluminum frame about 15%, and in the precise places we want it. We do not depend on it for strength.

The conclusion is that adequate strength is achievable in steel, aluminum or titanium alloys. With the proper construction techniques aluminum alloy frames can have greater strength in the weld zones than the best steel frames at the respective braze zones.

Continued after the inserted page.

August

2-5 Thursday-Sunday

Amherst, Mass.; Tandem '90; 10-50 mi. a day; flat to rolling; fee varies; strong family orientation; SASE to Franklin-Hampshire Freewheelers, Albert Shane, P.O. Box 559, North Amherst, MA 01059; (413) 548-9435.

3 Friday-6 Monday

Wolfville, Novia Scotia; Atlantic Canada Bicycle Rally; 7 p.m. at Acadia University; 18 to 60 mi. per day; flat to very hilly; \$55; incl. map, sag, route markings, souvenir, reception, program, barbeque, social night; A.C.B.R., Gary Conrad; P.O. Box 1555, Station M, Halifax, Novia Scotia, Canada, B3J 2Y3; (902) 423-5549.

4 Saturday

Lawrence Township, N.J.; Princeton Bicycling Event; 7 a.m. at Rider College; 15, 25, 50, 100 mi.; flat to mod. hilly; \$8; incl. T-shirt until July 25th, sag, snacks; helmet required; Princeton Free Wheelers, Inc., Edward Post, P.O. Box 1204, Princeton, NJ 08542-1204; (609) 890-8259.

5-11 Sunday-Saturday

Havre de Grace, Md.; Cycle Across Maryland; start at Havre de Grace H. S.; 350 mi.; rolling; \$110; incl. map, patch, sag, route markings, snacks, entertainment, camping, medical assistance; SASE to CAM-Tour '90-C, P.O. Box 11299, Baltimore, MD 21239; (301) 668-8609, 337-8786.

11 Saturday

Dalhart, Tex.; Dalhart XIT Classic Bike Tour; 8 a.m. at Cattlemens Livestock Auction; 12, 25, 50, 62, 100 mi.; flat to mod. hilly; \$12 till Aug. 1, then\$15; incl. map, sag, route markings, snacks, water bottle, T-shirt; SASE to Flatlanders-Amarillo, Rodney White; 108 W. 3rd. St., Dalhart, TX 79022; (806) 249-5567.

Centerton, N.J.; Bridgeton Zoo Ride; 8 a.m. at Schalick H.S.; 25, 50 mi.; flat; \$6; incl. map, patch, sag, route markings; South Jersey Wheelmen, Art Schalick, P.O. Box 2705, Vineland, NJ 08360; (609) 327-1336.

Be a Well Dressed Cyclist-

Wear a Helmet



11 DOG DAZE CENTURY Brandywine Bicycle Club, Nottingham, PA. Contact Mike Stull (215) 793-2341.

12 Sunday

Leamington, Ont., Canada; Point Pelee Possume Posse; 11 a.m. at Seacliff Park; flat; \$4; incl. map; Great Canadian Bicycle Tours, Jeff Scott, 3509 Academy Dr., Windsor, Ontario N9E 2H8, CANADA; (519) 969-4162.

Monroe, Mich.; 9th Annual River Raisin Tour; 7 a.m. at Monroe Co. Community College; 32, 62, 100 mi.; flat; \$9 till August 1 (no day of ride registration); incl. map, sag, route markings, snacks, lunch; \$1 rebate if helmet is worn; Monroe County Cycling, David Smith, P.O. Box 172, Monroe, MI 48161; (313) 243-2580.

Willow Grove, Pa.; Lake Nockamixon Century; 7 a.m. at A.M.H. Health Center, Blair Mill Rd.; 62, 100 mi.; flat to mod. hilly; \$6 till Aug. 11, then \$8; incl. patch, sag, snacks, cue sheet; helmet required; Suburban Cyclist Unlimited Inc., Emerson Custis; 300 Hatboro Pike, Apt. A 11, Hatboro, PA 19040; (215) 957-1067.

18-19 Saturday-Sunday

Canton, Ohio; Roscoe Ramble; 7:30 a.m. at DSU Campus Stark; 75 mi. both days; rolling to very hilly; map, patch, sag, route markings, snacks, lodging, canal boat ride; SASE to Akron Bicycle Club, Bill Kelleher, 192 Durward Dr., Akron, OH 44313; (216) 864-7785.

19 Saturday

Hortonville, Wisc.; Wolf River Century; 8 a.m. at Commercial Club Park; 50, 100 mi.; flat; \$10 till Aug. 5, then \$15; incl. map, sag, route markings, snacks, souvenir, free rustic camping; Fox Valley Wheelmen, Kevin Hillegas, 507 Nicolet Blvd., Neenah, WI 54956; (414) 729-5912.

Lancaster, Pa.; Covered Bridge Metric Century; 8-10 a.m. at Greenfield Corp. Center; 25,50,100 ki.; rolling; \$7 until Aug. 10, then \$9; incl. map, patch, route markings, sag, snacks, lunch; Lancaster B. C., Chas Roth, P.O. Box 535, Lancaster, PA 17603-0535; (717) 397-1149.

Morriston, Ont., Canada; Lions and Tigers Tour; 10 a.m. at Morriston commuter parking lot; 75 km; rolling; \$4; incl. map; Great Canadian Bicycle Tours, Clarence Dyksterhuis, 166 Wissler Rd. #202, Waterloo, Ontario N2K 2T9; (519) 747-4548.

25 Saturday

Rochester, N.Y.; Mendon Century; 7 a.m. at Mendon Ponds Park; 103 mi.; very hilly; incl. map; helmet required; Rochester B.C., Al Davis, P.O. Box 10100, Rochester, NY 14610; (716) 427-7884.

By ERMA BOMBECK



Cycle stylists miss the seat of the problem

You would have to be out of it not to know that bicycles have staged a comeback for recreation enthusiasts. They are everywhere—on highways and bike paths, on mountains and in deserts.

I have a bike hanging in the garage that you couldn't get me on if Paul Newman rode me around on the handlebars. I have always felt there was something seriously wrong with the design.

That's why my heart skipped a beat a few weeks ago when I opened Time magazine and saw a prototype of the two-wheeler of the future. It would have three-spoke wheels to make it more durable, hydraulic brakes to make stopping easier, a molded one-piece frame, a computer that could measure speed, distance traveled and altitude, a push-button gearshift, and ... and? I shuffled through the pages and scanned the story again. What about the stupid seat?

They were actually going to build a 21stcentury bicycle and keep the same old stupid seat!

Many do not love their bicycle seat. Ask them. It's like sitting on a flagpole for three days. Why should you have to be so miserable when you're trying to relax?

able when you're trying to relax?

In my mind I have tried to imagine how the bicycle seat was designed and by whom. Was it the same man who brought us culottes? It has to be. Here is a man who has never viewed the human anatomy from the rear. If you put a woman in a skirt and divide it into two legs, she's going to look like a Disney parking lot from behind. The same thing will happen if you perch her derriere atop a little hard seat that fans out like a dead pigeon. Wouldn't you have thought that someone in the office would have said, "Look, Hal.

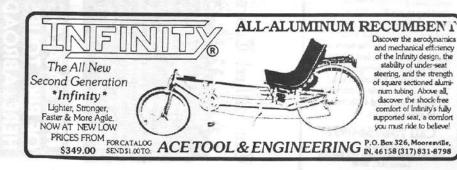
Wouldn't you have thought that someone in the office would have said, "Look, Hal, let's get Miss Simpson in here and let her sit on a piece of brown paper, and we can trace her outline with a Magic Marker just to get a handle on what we've got here"?

Hal probably would have said, "Who's going to notice what you look like when you ride a bicycle?"

"Hal! Are you saying you're not going to notice someone wearing a safety helmet and skintight neon Spandex shorts that glow in the dark?"

The Time article said that more changes will occur on the bicycle in this century and engineers will borrow materials from the aerospace industry. But a few things will likely remain the same: handlebars, pedals, a chain and two wheels.

Can you believe it? They didn't even mention the seat!





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The Pennsylvania Triathalon Sept. 15
Blue Marsh Recreation Area, near Reading • Info: (215) 926-4303 • Sponsor/Organizer: Precision Road Racing, Inc. • Fee: \$35/\$45 • Deadline: August 31 • More: no race day registration



September_16th -- Tour of Brandywine River Valley, Delaware Valley Bike Club. Call (215)449-6154.

VOLUNTEER VOILUNTEER



FREE CATALOG OF BIKE TOURS HERE&ABROAD	Over 200 first class bike tours for adults and families in the eastern U.S., Europe, China, and the Canbbean this writer. As the N.Y. Times says: "A venture that lives up to all those daydreams." Name. Address	Country Cycling Tours

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Bike Club	Montgomery
(302)738-94	County.

Discussion

Overall, steel, aluminum and titanium alloys are surprisingly similar. Apparently, aluminum and titanium have gained a reputation of being "whippy" because time and time again manufacturers attempt to build very light frames out of them. The better strength factors allow one to make a lighter bicycle frame but the higher strength does nothing for the stiffness. The same is true of Reynolds 753 (light gauge) which results in a light and "whippy" frame. It is not surprising that Reynolds also makes 753 in the same approximate gauge and weight as 531 Standard and that this tubing, not the light 753, is the one sometimes used by the Raleigh road team.

Design Consideration - Tubing Diameter

The stiffness of equivalent weight tubes increases as the square of the diameter. The larger diameter tube has a thinner wall, is stiffer and weighs no more than the smaller tube. So why not make a bicycle frame out of the same material they use for beer cans? You could, and the frame would have an extremely high stiffness to weight ratio but it would crumple very easily (known as crippling failure). This is because there is a stability limit to how small the wall thickness to diameter ratio of a tube can become - about 1:50 before the tube becomes prone to crippling instead of bending failure, and like the beer can demonstrates, crippling is more easily performed than bending. As the wall becomes less that 1/50 the diameter of the tube the inherent strength of the tube rapidly decreases regardless of the material strength. For tubes that fall safely within the 1:50 ratio the bending strength of equivalent weight tubes increases linearly with the diameter. The larger diameter tube is stronger and weighs no more than the smaller tube.

Remember that aluminum is much less dense than steel. It has three times the volume for the same weight. An aluminum tube would have about a three times thicker wall than an equivalent weight steel tube. A 1.0" diameter steel tube with a wall thickness of .020" would have a wall thickness to diameter ratio of 1:50. With the same weight of aluminum you could make a 1.5" diameter tube with a wall thickness of .040" and a safe wall thickness to diameter ratio of 1:37.5. The aluminum tube would be 50% stronger and 125% stiffer than the steel tube even though it weighs exactly the same.

The following table of Down Tube Comparisons graphically illustrates that the large diameter aluminum tube offers considerable advantage over both 531 and 753 frame tubes in both strength and stiffness. The welded and heat treated frame, in addition, has no extra weight in the lugs. The result is a light, durable, high performance racing frame.

Averages are based on Reynolds double butted tube configuration of an 11" unbutted section, 3" butted sections on each end of the tube and two 2" taper regions.

² The stiffness of a butted tube is calculated in the following manner. Add the deflections of each section of the tube to obtain the total deflection (for a unit load) and take the reciprocal (inverse) to obtain total stiffness. Stiffness is load required per deflection.

Butted sections are about 2/3 the original material strength after brazing.

An average figure here would be meaningless. The tube will fail at it's weakest point

Strength is probably less because the 1:50 wall thickness to diameter ratio has been exceeded.

TEAM Casual

Challenges Compelliors to "Follow The Leader"

TEAM DVBC's (TEAM Casual's) Mother's Day Five Mile TIME TRIAL RESULTS:

NAME	FRAME	TIME	AGE	PTS.	TP
John Freiberg	Raleigh	13:28	29	09	13
Ed Silcox	Bianchi	13:27	43	10	29
Chal Bagent	Raleigh	14:55	25	06	06
Frank Mc Aleer	Cannondale	14:31	31	07	07
Kevin Cuddy	Lotus	15:05	38	05	05
Jerry Kagan	Giant	17:14	25	04	04
Annie Fetter	Olmo	13:50	23	80	16

TIMEKEEPER: Rollin' Rich Patterson (215) 622-2954 Course: Goshen, Sugartown, and Providence Roads NOTE: not all entrants are TEAM Casual members

HELMET IS MANDATORY! HELMET IS MANDATORY!
THE TIME TRIAL SERIES IS OPEN TO ANYONE:

JOIN US- JUNE 16 AND JUNE 17 AT 10:15 AM; JULY 1 AT 10:15 AM; AUGUST 5 AT 10:15 AM; SEPT 9 AT 10:15 AM; Oct 7 AT 10:15 AM

Rolling starts are penalized by adding 10 seconds. Remember, there is absolutely NO entry fee!

Den Wasserman / Boston Globe

TOUR DE TRUMP

	29-July 20 Tour de France, daily uptates, Good Morning America, ABC, 7:40 am	(Preview-		1 Tour de France, (Prologue, Stages	de France (Review: Prologue, 1-4, Same day coverage stage PW, 10:00-11:00pm	7 Tour de France Individual TT, Stages 3-6), ABC, 4:30-6:30pm	Tour de France (Stages 7-8), ABC, :00-6:00pm	10 Tour de France (Review: Stages 7-9, Same day coverage, Stage 10), ESPW, 10:00-11:00pm	(Stages 9-13),	(Stages 9-14),	coverage Stage 17),	21 Tour de France, ABC, 4:30-6:30pm	4:30-6:00pm
	And	909		010	Tove Da	nd 1 v	ges	ge,	(Sta	(Sta	Rev	,	
	. 5	E-0		0	200	-0	40	2 8			- 5	W W	×
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	0 4 5	9	>	200	Tour ages	96	0-0	F . Z	-		Z Z	-	F
2000	29-Jupta	30 Tour de France Prologue), ABC, 4:30-600	SULY	1-2	4 Tour de France (Revierstages 1-4, Same day Co 5), ESPN, 10:00-11:00pm	7 T Bta	8 Tour de F	10 7-9	14 Tour de Fra ABC, 4:30-6:30pm	15	18 Tour de France, (13-16, Same day cover ESPN, 10:00-11:00pm	21	22

POINTS LEADERS

Ed Silcox	29
Tom Corrigan	19
Annie Fetter	16
Jason Busch	15
John Freiberg	13
Jeff Horowitz	12
Josh Horowitz	12
Frank Mc Aleer	07
Chal Bagent	06
Kevin Cuddy	05
Cliff Allen	05
Jerry Kagan	04
Mike Grzywacz	04
Geof Shepard	03

Q&A

Gabe Mirkin/Sports medicine

How can I increase my endurance for long bicycle trips?

To keep going during a long bike trip, you need plenty of muscle fuel. A major source of fuel during exercise is glycogen, sugar stored in the muscles. When the muscles run out of their stored glycogen supply, they hurt and feel tired. And that's what you want to avoid.

You use more glycogen when you pedal slowly against resistance than you do when you pedal faster against less resistance. That's why experienced cyclists try to pedal at a fairly constant pace and gear down when the resistance increases.

When you start to climb a hill, gear down while you still have some momentum and before you must exert significant force on the pedals. Once you start pulling on your gears, it will be very difficult to change gears.

Do not gear back up until you have reached the top of the hill. If you gear up too soon, you will slow down and then have to exert greater force on your pedals.

What impact does menstruction have on a woman's athletic ability?

CITIZEN RACE SCHEDULE Juna-----16th ---Moonlight Biathlon. Contact Dave Baseley (215)469-9855.

Juna___24th -- WAGO Cycle series Race #3. Contact Precision Road Racing (215)926-4303.

July 29th -- WAGO
Cycle series Race #4.
This citizens race
will be held along
with a Cat 1-2 Pro
Crit at Scenic River
Days. Contact
Precision Road Racing
(215)926-4303.

August 19th -- WAGO
Cycle series Race #5.
This event will be
held in Leesport as
part of their
S e p t e n n i a l
celebration and will
be about 50 miles.
Contact Precision
Road Racing (215)9264303.

September_2nd - Tri County Pedalers annual "Norman's Classic Criterium".

September___16th --WAGO Cycle series Race #6. Contact Precision Road Racing (215)926-4303.

October__14th -- WAGO
Cycle series Race #7.
Contact Precision
Road Racing (215)9264303.
October___20th -Season of the Witch
Biathlon. 10 A.M.
Contact Dave Baseley
(215)469-9855.

VELODROME SCHEDULE

The 1990 season at Lehigh County Velodrome promises to be an exciting one with many great events planned. If you have never watched track racing this is the place to go. Racing is slated for every Tuesday and Friday night throughout the summer. Several members of the Tri-County Pedalers racing team will be appearing every Tuesday night. Look for our team colors and scream for your favorite racer. The 1990 season schedule is as follows:

June 1	ine Morning Call All Stars
8	Full Cycle Keirin Cup
15	Channel 39 night
22	A Long Days Night
29	T-Town Cycles Tandem Challenge
July 6	Record Breakers
10 - 14	1990 John E. DuPont National
Championships	
20	Cycling Cap Night
27	Air Products Development Finals
August 3	World Cup Sprint Tournament
10	Sprinter's Revenge
17	Water Bottle Night
24	Kid's Night
31	Madison Cup
September 7	Fastest Man on Wheels

CLING ON TV

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Dan Wasserman / Boston Globe



France (Review: Prologue, 4, Same day coverage Stage 10:00-11:00pm France (Stages 7-8), France, (Prologue, 2:30-3:30 Tour de France 8 Tour de Fr 5:00-6:00pm de Tour

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Jeff Horowitz	12
Josh Horowitz	12
Frank Mc Aleer	07
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Gabe Mirkin/Sports medicine

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	20			Cycling Cap Night
	27			Air Products Development Finals
Augus	t 3			World Cup Sprint Tournament
	10			Sprinter's Revenge

Water Bottle Night 24 Kid's Night 31 Madison Cup September 7 Fastest Man on Wheels

17

1990 SEASON AT THE LEHIGH COUNTY VELODROME

PRIZE MONEY OPERANG MICHT \$ 2,500 MAY 25 Pro. Cat. 1, 2 & Women BINE 22-INTERNATIONAL CYCLING \$15,000 WENT WO U.S. & Foreign Teams, Invitational Only! JULY 10-14 JOHN E. PUPONT ILS. NATIONAL CHAMPSONSHIPS Includes Madison Nationals! THE BICYCLING MAGAZINE AUG. 31 MADISON CUP \$ 5,000 The 12th Annual Event SEPT. 7 FASTEST MAN ON WHEELS \$ 7,500 (*See Details*)

FASTEST MAN ON WHEELS SERIES
"Best Overall Track Racer"

MAY 25, June 15, July 20, August 17

Finale September 7

Finale Pro, Cat. 1 & 2 35 riders
Top 10 from each Series

Event +10 Promoter Wildcards

Women Finale Only 35 riders

PRIZE MONEY: 1. 425 6. 150 2. 350 7. 125 3. 300 8. 100 250 4 9. 75 5. 200 10. 50 400 1. 1250 6. 7. 300 2, 1000 3. 750 8. 250 600 9. 200 5. 500 10. 5. 500 200 1. 2. 400 6. 150 300 3. 100 250

PRO CAT. 1, 2, & WOMEN Racing Friday Nights May 25—September 7

SR. MEN CAT. 2/8, 4
MASTERS, JR. 16-12, 13-15, 16-18 & WOMEN
Racing Tuesday Nights
May 22—September 4

REGISTRATION 6:00-7:00 P.M. RACING STARTS AT 7:30 P.M.

For more detailed information on all of the races held at the Lehigh County Velodrome call or write:

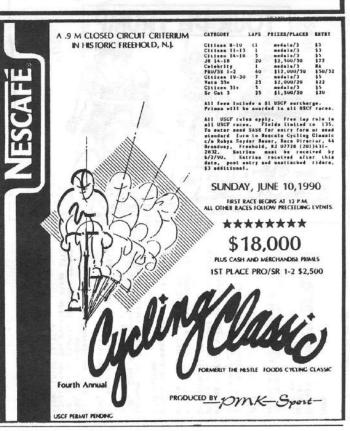
LENGH COUNTY VELODROME 217 MAIN STREET ENMAUS, PA 18049 (215) 965-8880

lehigh County
VELODROME

RACE NEW JERSEY ★ \$30,000 WEEKEND

1111111111111111111

Annual Coors Shore Cycling Classic **PRIZES** PLACES FEE START Sr. Woman \$750+300 primes 15 \$20 9:30 am Junior 20 \$750+300 primes 15 After \$20 Veteran 35-44 \$800+250 primes Proceeding 15 \$20 25 Cat 4 \$750+300 primes 15 \$20 **Events** Cat 3 30 \$800+250 primes 15 \$20 Pro | & || 60 \$5000+1000 primes \$35 Pro-(In Memory of Harold Schneider) \$27 Sr. I & II Saturday: June 1990 Rain Shine REGISTRATION: opens Friday night 7-9 pm, REOPENS Saturday 7:30am at the bandshell on the course, closes 1:00 pm SHARP! ENTRIES: Received after May 28th pay post-entry & unattached rider fee of \$5.00. NO PHONE ENTRIES. USCF RULES APPLY. Free lap rule for Pro I & II only. Field Limit: Pro I & II 175, other 150. CRITERIUM COURSE: Level .6 mile. HOUSING INFO.: Special rates \$39 Colonial Motel (201) 899-2394 DIRECTIONS: Garden State Parkway to exit 98. Follow signs for Pt. Pleasant. Make left on Arnold Avenue (center of town). ENTRIES TO: Coors Shore Cycling Classic, c/o Race Director, P.O. Box 1763, Pt. Pleasant Beach, NJ 08742. INFO: Glenn Schneider (201) 899-9753 ineTime Promotions Presents 1st Annual Arts & Crafts Festival *CITIZENS RACES FOR ALL AGES: BMX (5-8) (9-12) 10 SD. (13 & up)





The Pennsylvania Bicycle Club presents the 6th Annual

MEMORIAL HALL CRITERIUM

Fairmount Park, Philadelphia, PA Saturday, June 16, 1990 USCF Race Permit # Pending

Class	Distance	Time	Places	Cash Prizes	Entry Fee
Masters 45+	30K	9 AM	9*	\$500*	\$10
Women	30K	1	10	\$300	\$10
Masters 35-44	30K	After	10	\$400	\$10=
Masters 30-34	30K	Preceding Race	10	\$400	\$10
Senior Cat. 2 & 3	40K	1	10	\$1000	\$20

Six places for 45+ and three places for 55+

Registration:

Memorial Hall in Fairmount Park. Opens at 8 AM.

Add \$5.00 after June 6th and on race day.

Flat 1K course. Field limit 100 riders. Free lap rule will be in effect.

Mail standard entry form and fee prior to June 6th to: PBC c/o Laurama Pixton, 445 Dreshertown Rd., Ft. Washington, PA 19034. Make checks payable to "P.B.C."

Directions:

From Rr. 76 and Rr. 1, take Rr. 1 South (City Line Ave.) 1 mile to Belmont Ave.
Turn left and go 1.5 miles to North Concourse Drive.
Turn left and Memorial Hall is ¼ mile ahead on left.

For additional information, contact: Nancy (215) 542-7181 or Dave (215) 941-7039 (before 10PM please!)

> Sponsored by: Cycles BiKyle • Scott Oldsmobile/Saab

COME AND STAY OVERNIGHT FOR THE CORESTATES PRO CHAMPIONSHIP RACE!



INDEPENDENCE RACE WEEK IN CONNECTICUT

More than \$8775 in cash prizes plus primes!

JUNE 30th

16th New Britain Criterium

Control Connecticut Cycling Club
JUNIOR SERIES

High School Boys 13-15	4mi	5	S6	Modals
High School Girls	4mi	5	\$6 \$6	Medals
Migh School Boys 16-18	6mi	5	56	Medals
Jr. Boys 15-16	10ml	5	\$10	\$100
Jr. Girls 16-17	10mi	3	\$10	\$75
Jr. Boys 17-18	15mi	10	\$10	\$300
MCRA MA	STERS PRESTIGE P	OINT SERI	ES	
Category	Distance	Places	Fee	Prizes
Citizens 30 +	6mi	5	\$10	Medals
Master 30-39 IV	10mi	10	\$10	\$300
Master 30-39 1-111	15mi	15	\$10	\$400
Master 40-49	15mi	10	\$10	5200
Master 50-59	15mi	10	\$10	\$200
Master 60+, 65+, 70+	10mj	10	\$10	\$100
	SERVIOR SERVES			
Category	Distance	Places	Foo	Prizes
Sentor Mon III	15mi	15	\$16	\$1001
Sonler Women* III-IV	10ml	10	\$10	\$200
Senior Mee 1, 11, 111	30ml	20	526	\$1250
Citizons 18-30	10mi	5	\$10	Medals
Confee Man IV	10-st	10	610	6000

REGISTER EARLY - MANY FIELDS CLOSED OUT LAST YEAR.

"Some Warms 10. FF ones will be some on Pulsich Brane "Souther 1, 18, 18 was beliefed to the level of the 30 and to 1, 18, 18 was beliefed to the level of the 30 and to 1, 18, 18 and to 1, 18, 18 and 18 and to 1, 18, 18 and 18

JULY 4th 16th Andy Raymond Firecracker Criterium

Promoted by Middlesex Bike Club, and Middletown Parks and Recreation Department

COURSE: 1 km, closed to traffic in downtown MIDDLETOWN, CONNECTICUT.

LOCATION: From Route 9 to Route 66 Exit to Main Street then left onto Main Street. From Route 66 to Main Street, then right onto Main Street.

REGISTRATION: Open to all USCIF licensed riders. Entries close June 2, 1990. Unattoched riders pay additional 55.00. Promoting organization reserves the right to combine events with insufficient entries. Field Limit: 100 riders per race. Shower facilities available.

RULES: Prizes will be cosh, traphies, and merchandise according to USCF rules Use standard entry form. Mod entries to Midddletown Parks and Recreation, 169 Butternut Streat, Midddletown, CT 06457. Checks payable to Andy Raymond.

Registration opens at 8:00 a.m. — Races begin in order listed below.

CASS	DISTANCE	PRIZES	PRIZE	ENTRY FEE*	
Jr. M 10-12/W 10-12	3 KM	2/2	\$ 50.00	\$ 6.00	
Jr. M 13-14/W 13-15	5 KM	3/2	50.00	6.00	
Jr. M 15-16/W 16-17	5 KM	3/3	75.00	7.00	
Sen. Men 45+	15 KM	8	150.00	8.00	
High School (Non USCF)	5 KM	5	Medals	6.00	
Sen. Men IV 19-34	15 KM	10	200.00	9.00	
Sen. Men 35+	20 KM	10	300.00	10.00	
Sen. Women III & IV	15 KM	10	200.00	9.00	
Jr. Mon 17-18	15 KM	10	200.00	9.00	
Son. Men III 19-34	25 KM	15	600.00	10.00	
Son. Men I & II	50 KM	15	1,100.00	15.00	

RACE-DAY ADD \$4.00.
*FEES INCLUDE C. B. R. A. SURCHARGES AND INSURANCE.

JULY 7th

1990 Riverfest Cycling Classic

Bushnell Park, Downtown Hartford

Sponsored b



in cooperation with the Capital Velo Club & the Exposition Wheelman

Category 1, 2, 3 Dist. 25 mi. Prizes: \$1200 Entry Fee: \$20*
Category 3 Dist. 10 mi Prizes: \$650 Entry Fee: \$10
Masters 30-39 Dist. 10 mi Prizes: \$650 Entry Fee: \$10

"Manifestern Car. 3 ont-less Bushind to 35, Field Bushin 100. Reunitern treated in under of roy, All 1950's sales appl Brootseched USCF ridden will be changed ontry surcharge of 55. Beginter by Jone 29, 1960.

Call (203) 742-5239 for complete registration info.

40 Mile Criterium Columbia City Fair. Columbia, MD Rain or Shine Cash prizes to top 20 riders. Cash bonuses to top team top CAT III, top Master. For Women Only.

Cat I/II/III & Masters.



1990 ROFFLER.WON

Cycling Classic

Presented by





Sports

Sunday June 17-11:30 am \$10,000 in Cash Prizes Early Registration Deadline May 25 Early Registration Fee: \$30.00

VCS NATIONAL CONSULTING STRATEGIES

2446 Reedie Drive, Suite 11 Silver Spring, MD 20902 (301) 929-0677





Sunday, June 17, 1990 Millbury, MA \$5,000 Prize List

CATEGORY	DISTANCE	PLACES	PRIZES	ENTRY FEE	TIME	FIELD LIMIT
Citizen	10 mi.	3	Merchandise	\$12	12:45 p.m.	50
Women	20 min. + 3 laps	10	\$500	\$10	1:15 p.m.	100
Masters 45-54, 55+	20 min. + 3 laps	10	\$500	\$10	1:55 p.m.	100
Senior 4	20 min. + 3 laps	10	\$500	\$10	2:35 p.m.	100
Senior 3	25 min. + 3 laps	10	\$500	\$10	3:15 p.m.	100
Juniors	25 min. + 3 laps	10	\$500	\$10	4:00 p.m.	100
Masters 35-44	35 min. + 3 laps	15	\$1000	\$15	4:45 p.m.	100
Senior 1,2	45 min. + 3 laps	15	\$1500	\$20	5:40 p.m.	100

Post entries after June 10 add \$4 \$1 USCF insurance charge included in entry fee 1-mlie criterium — Plenty of primes — Cable TV coverage

noted by: Millbury Lions Club • Blackstone Cycling Promotions Worcester Road Club • Team Burns

nsored by: Atlas Distributing • Miller Lite Beer • Millbury Amusement Center Columbo Yogurt • Look Pedals USA • Sony Corp. • Poland Spring Water Exced Sports Nutrition System • Ultimate Direction

Information: 1st Place Bicycles-Skis, 17.5, Main St., Millbury, MA 01527 • (508) 865-4873 Send standard athlete entry form

REVIEW

If you've never led a ride because you didn't know where to go, then "25 Bicycle Tours in New Jersey" is the book for you. The rides in the book cover over 900 miles, ranging in length from 11 miles to 75.3 miles. They're of varying levels of difficulty, including two overnighters.

Every ride has been tested by the book's authors, Arline and Joel Zatz. The Zatzes seem to have discovered the best of the Garden State, as all rides include some type natural, cultural, or historical feature.

Actually, this book is worth buying just for its informational value alone about New Jersey. It's chockfull of all sorts of interesting trivia (Essex and Union counties were purchased from the Lenni-Lenape Indians for a mere "50 double hands of powder, 100 bars of lead, 20 axes, 20 coats, 10 guns, 20 pistols, 10 breeches, 50 knives, 20 hoes, 850 fathoms of wampum, 3 troopers coats, and 32 gallons of water").

It's easy to choose a ride as the book is divided into 3 sections - - north, central, and south. At the beginning of each ride, the and south. At the beginning of each ride, the location, starting point, terrain, traffic conditions, distance, and trip highlights of the ride are all listed. Anyone who has ever complained about cue sheets on BTCNJ rides will appreciate the running mileage and accompanying maps. Also included with each tour are bicycle shops that can be found along the way. "25 Bicycle Tours in New Jersey" sells for \$ 8.95 and is available at most bookstores, bicycle shops and sporting goods stores. stores.

3rd Annual

New England Mountain Bike Championships

at Mount Snow, Vermont

June 30 & July 1, 1990

\$15,000 Cash Purse plus Merchandise Prizes. Part of the 1990 Coors Light National Point Series, presented by NORBA and Specialized.

All NORBA classes. For Info Call: 603-756-9571

Please send me a reservation form and lodging information:

City	St	Zip ic, & Chuck Fios	
Address			
IValilo	 Jim copie		

Mail to: New England Mountain Bike Championships 810 Mountain Rd Mount Snow, VT 05356

Presented by

3rd Annual \$10,000 CASH OSSININ PRIZE LIST BICYCLE RACE

Start Time Places Value Class Distance 8:00 Citizens 8 miles medals \$11 9:00 25 \$18 Juniors 15 miles \$1250 Sr. Men 3/4 15 miles 25 \$1250 \$18 10:15 Women 15 miles 25 \$1250 \$18 11:30 \$1250 Veterans 15 miles 25 \$18 12:45 Pro 1 & 2 33 miles 30 \$5000 \$25 2:00

JULY

4th,

1990

Unattached riders add \$5 Late entry (after 7/1/90) add \$5

Race will be held on the same course as 1989. All USCF Rules will apply. Free lap rule is in effect. For racer information package, send SASE to: Ossining Grand Prix, P.O. 670, Ossining, NY 10562

For additional information call Rich Garcia (914) 245-7741 USCF permit applied for

THE SEVENTH ANNUAL **GREAT STEAMTOWN BIATHLON**

RACE INFORMATION

DATE/TIME:

SUNDAY, JULY 8, 1990, 7:30 A.M.

LOCATION:

NAY AUG PARK, SCRANTON, PA

ORGANIZERS:

J. MICHAEL SCHIRRA HAIRSTYLING **ROLLING ROCK PREMIUM BEER** ROYAL BOTTLING CO., SCRANTON

PAUL GRONSKI ENT. INC.

BENEFICIARY:

BIG BROTHERS/BIG SISTERS LACKAWANNA COUNT

DISTANCES:

2 MILE RUN, 20 MILE BIKE, 2 MILE RUN

FIELD LIMIT:

300 PARTICIPANTS

ENTRANCE FEE:

\$20 IF POSTMARKED BY JUNE 23, 1990

THEN \$25 UNTIL RACE DAY

REGISTRATION:

Send APPLICATION along with a CHECK or MONEY ORDER

to: STEAMTOWN BIATHLON SUITE 128

930 S. WASHINGTON AVE. SCRANTON, PA 18508

Confirmations will be mailed along with directions and rules. Mail your application early to avoid disappointment and confusion

AWARDS:

MALE: 18-24, 5 places; 25-29, 5 places; 30-34, 5 places; 35-39, 3 places; 40-44, 3 places; 45-49, 3 places;

50-54, 3 places; 55 and over, 3 places.

18-24, 3 places; 25-29, 3 places; 30-34, 3 places;

35-44, 3 places; 45 and over, 3 places. TOP 5 MALES & TOP 3 FEMALES

Because we are a Qualifying Event for the 1990 New York City Biathlon (Invitational) - U.S.B.F. National Championship, that will be held in Central Park on November 11th, 1990, the TOP 20 MALES & the TOP 10 FEMALES will qualify (minimum age is 18)

AMENITIES:

Water stations on run. Water bottles exchange on bike. Post race food. T-Shirt and Bicycle magazine etc. Medical Aid. Random Prizes. Awards ceremony. Race results will be

mailed out.

Jun 16 Miller Incredible Journey Triathlon, Bobi Dallas, (315) 457-4422, Onondaga Lake Park, P.O. 146, Liverpool, NY 13088, Onondaga Lake Park, Liverpool, New York Canoe: 5.6m B: 15m R: 6.2m

Jun 16 S2K Sprint Triathlon, DMSE, 430C Salem Street, Medford, MA 02155, (617) 396-3001, Hyannis, Massachusetts S: .25m B: 8m R: 3m

Jun 16 Severna Park YMCA Triathlon, Mark Bachman, Severna Park YMCA, 623 Baltimore Annapolis Blvd., Severna Park, MD 21146, (301) 647-3800, Edgewater, Maryland

S: .5m B: 10m R: 3.5

Jul 15 Bud Light U.S. Triathlon Series, New England, CAT Sports, 5966 La Place Court, Suite 100, Carlsbad, CA 92008, (619) 221-5555, **Burlington**, Vermont S: 1.5k B: 40k R: 10k

Jul 15 Carbon County Triathlon, Ed Vermillion, 625 Interchange Road, Lehighton, PA 18235, (215) 377-5905, Lehighton, Pennsylvania

S: 1.2m B: 32.2m R: 10m

BIG BROTHERS

1990 NEW YORK

Jul 16 High Peaks Cyclery Mini-Tris, Brian DeLaney, 18 Saranac Avenue, Lake Placid, NY 12946, (518) 523-3764, Lake Placid, New York S: 400 meters B: 12m R: 2.75m

Jul 21 American Red Cross Governor's Cup Triathlon, Donna Nelson, P.O. Box 5184, 1804 North 6th St., Harrisburg, PA 17110-0184, (717) 234-3101, Pinchot State Park, Rossville, Pennsylvania

S: .5m B: 10m R: 3m

Jul 21 Bud Light Lion's Journey for Sight Triathlon, Al Hastings, c/o Auburn YMCA-WEIU, 29 William Street, Auburn, NY 13021, (315) 253-5304, Village Park, Union Springs, New York

S: 1.5k B: 40k R: 10k

Jul 28 Corkscrew Team Triathlon, David Kennedy, Route #2 Box 2756, Reading, PA 19605, (215) 926-4303, Reading High School, Reading, Pennsylvania

R: 3.1m B: 6.2m S: 150 meters R: 2m

SEVENTH ANNUAL GREAT STEAMTOWN BIATHLON ENTRY FORM

I, the undersigned, hereby acknowledge that participation in the Great Steamtown Biathlon carries with it potential hazard. I am aware that vehicular traffic and pedestrians will be using the same roadways as I during the event and that a I, the undersigned, hereby acknowledge that participation in the Great Steamtown Biathlon carries with it potential hazard. I am aware that vehicular traffic and pedestrians will be using the same roadways as I during the event and that a collision could cause injury or death. In consideration of and as a condition of my participation in the said event, I, the undersigned, intending to be legally bound hereby, for myself, my heirs, executors, administrators and personal personal representatives, hereby waive and release any and all rights and claims for death, damages, lilness, injuries, or losses which I have or may have occur to me against all sponsors, race promoters, race officials, organizations, and volunteers conducting or involved in this event, including but not limited to J. Michael Schirra Hairstyling, Rolling Rock Premium Beer, Big Brothers/Big Sisters Lackawanna Counties, Royal Bottling Company, Inc., Paul Gronsk Enterprises Inc., the City of Scranton, Roaring Brook. Township, Covington Township, the Township of Springbrook, the Borough of Dummore, Lackawanna Counties, Royal Bottling Company, Inc., Paul Gronsk Enterprises Inc., the result from my participation in said event and travel to and from said event. I understand that this event is strenuous, requiring physical exertion, and I hereby certify I have properly trained and am in proper physical condition to participate in said event. I suthorize the officials of this event to use their discretion to have me transported to a medical facility and/or administer medical aid, and I will take the responsibility for such action. Further, I hereby grant full permission to the afformentioned persons and/or organizations to use my name and/or picture in any newspaper, TV program, video tape, motion picture recording, or any other record or other account of this event, for any purposes whatsoever. I have read and understand the official rules of this event. By submitting my application, I agree to the terms delineated above.

lease Print Clearly Last Name		First Name	Sex Age Male Female on race day	7011	F	or Official Use Only
Mailing Addres	s Street	Include Apt. No. and or CO		1 to	#	AMT.
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Date:	Signature	L DO SA BRADA				SOT BUILDA

TANDEM CALENDAR 1990

July 1, 1990. Double or Nothing Tandem Ride. Carmel, NJ. Time: 9:00 a.m. Sponsored by the Carmel Fire Department, this family-oriented social ride is an out and back ride in Salem & Gloucester Counties. 44 or 66 miles. \$35.00 per team, preregistration only by June 25, 1990. Includes food, sag, maps, lunch, and dinner. SASE to Mel Kornbluh, RR8, Box 319-E Gwynwood Drive, Bridgeton, NJ 08302.



I knew yourstoker would teach you a Lesson formaking herchange that tire.

July 28-29-August 3, 1990. Berkshire Pre-Tour (of the ETR). Tour the scenic Berkshire hills of western MA & CT and enjoy the cultural attractions of the area such as the outdoor Shakespeare Theatre. Get acquainted at an evening picnic at Tanglewood (summer home of the BSO). Around 50 miles per day with hills to enjoy fine dining at night. Limited to approximately 10 teams. For more information, send SASE to Sue & Al Berzinis, 178 Hubbard St., Lenox, MA 01240

July 30-August 2, 1990. Family Tandem Pre-Tour (to ETR'90). Hadley, MA. Three days of easy rides and fun geared to (but not limited to) families with "kiddy-backs" and "Buggers". Plans include swimming, hayrides, playgrounds, and a visit to Old Sturbridge Village (a recreated 1830's New England Village). Send a SASE to Frank & Cindy Rosen, 28 Sherwood Drive, Belchertown, MA, 01007. (Phone 413-323-

August 3-5, 1990. Eastern Tandem Rally. University of Massachusetts- Amherst. For more information, send a SASE to Al Shane & Marion Gorham, RFD#3, Two Mile Road, Amherst, MA 01002.

August 6-12, 1990. ETR Post-Tour through the winding countryside of central MA. The tour will begin and end in Sturbridge, MA, a short one-hour automobile ride from Amherst. The cost will be approximately \$550/team (a price increase may occur if sag-service is provided). The fee includes six nights accommodations, four breakfasts, and a dinner at the at Victorian Barre Hotel. Except for a two-night stay at the Chockset Inn, we'll be at a different Inn each night. Mileage can vary from 30-100+miles. If your are interested, a \$300 deposit is due NOW. Contact Jerry & Lois Jacobs, 48 Stark Road, Worcester, MA, 01602 (508)-752-4966 for more information.



Tandems East

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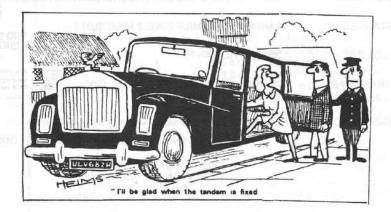
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TANDEM RACES -- 1990

June 17, 1990. Mt. Tabor Criterium. Portland, OR (Hilly!) Russell Morton or Rene Kane at the Burley Design Cooperative, 4080 Stewart Road, Eugene, OR 97402. Ph: (503)-687-1644.

June 29-July 4, 1990. 3rd Burley Duet Cycling Classic. The only Tandem Bicycle Stage Race in the US. Eugene, Salem, Springfield, Brownsville, Cottage Grove, OR. \$6000 prize list puts this on par with other major tandem events around the world. Russell Morton or Rene Kane at the Burley Design Cooperative, 4080 Stewart Road, Eugene, OR 97402. Ph: (503)-687-1644.

July 13-15, 1990. Starved Rock Classic. Ottawa, IL. A three-day, four-event stage race. USCF sanctioned event with all USCF categories and Citizens classes, plus a tandem category. Captain and Stoker must both be USCF licensed (Open Class). \$800 in prizes. 20K Time Trial, 25 mi. Twilight Criterium over .62 mile course, Starved Rock Road Race -- 48 miles over a hilly course, Vermillion Gorge Circuit Race - 30 miles on a hilly course. Tom Weiss, Route #4, Ottawa,

IL 61350 ph: (815)-433-4589 or Dixie DeVry ph: (815)-434-6162.

August 12, 1990. Centralia Criterium. Centralia, WA. (Flat & fast course). Russell Morton or Rene Kane at the Burley Design Cooperative, 4080 Stewart Road, Eugene, OR 97402. Ph: (503)-687-1644.

August 19, 1990. Mt. Hood Loop Criterium. Rippling Rivers, OR. (Flat & fast). Russell Morton or Rene Kane at the Burley Design Cooperative, 4080 Stewart Road, Eugene, OR 97402. Ph: (503)-687-1644.

August 26, 1990. Northwest Tandem Road Race Final. Salem, OR. (Hilly). Russell Morton or Rene Kane at the Burley Design Cooperative, 4080 Stewart Road, Eugene, OR 97402. Ph: (503)-687-1644.

September 2, 1990. Sears Point International Cycling Championships, Sonoma, CA. (tenative for now). Russell Morton or Rene Kane at the Burley Design Cooperative, 4080 Stewart Road, Eugene, OR 97402. Ph: (503)-687-1644.





MOUNTAIN ISSUE

MOTACCESSORIES FOR THE 90's

Rockrings Cook Bros. Cranks Onza Bar Ends Onza "Buzz Saws" Switch Blade Forks Grip Shift Deore XT Equipment Aztec Brake Shoes Scott AT-4 Bars Matrix Tires Mt. Zetal Pumps Avocet Gel Flex Saddles SR "Tall Cool One" Seat Posts Scott "Sticky Fingers" **Power Bars Tomac Attack Grips**

Profile Handlebars Matrix Rims "T" Bone Stems Ritchy Mega Bite Tires **Specialized Fat Boys** Farmer Johns-Cousins-Nephews Onza Porcupine Tires Low Fat Pedals Shimano ATB Shoes & Pedals Kryptonite ATB Lock Cat Eye ATB Computer Mayle Rims & Components Blackburn MTB Racks **Oakley Glasses Grove Innovations Fat City Cycles**

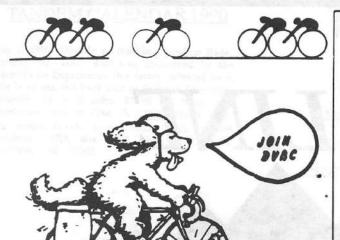
IN PENNSYLVANIA

PAOLI	WAYNE	WEST CHESTER	BROOMALL
Paoli Shopping Ctr.	165 W. Lancaster Ave.	200 W. Gay Street	2619 West Chester Pike
647-8023	687-1110	436-8984	356-3022
EMMAUS	ALLENTOWN	PH0ENIXVILLE	COLLINGDALE
831 Chestnut St.	1728 Tilghman St.	711 Nutt Rd.	533 Mac Dade Blvd.
967-1029	439-1724	935-9111	583-7711
ARDMORE	BETHLEHEM	PHILADELPHIA	KENNETT SQUARE
55 W. Lancaster Ave.	2112 Schoenersville Rd.	1028 Arch Street	520 S. Union St.
649-9839	691-0943	923-1310	444-0399

IN DELAWARE

NEWARK	WILMINGTON
212 E. Main St.	2900 N. Concord Pk.
302-368-8779	302-479-9438
DOVER 595 N. Dupont Hwy. 302-678-1772	PIKE CREEK Pike Creek Shp. Ctr. 302-998-0202







PLEASE AFFIX POSTAGE

(NEW SUPPLY OF CLUB T-SHIRTS IS IN!)

Place Label Doro

The above mailing label constitutes a DVBC membership card expiring 60 days past postmark.

FIRST CLASS MAIL

The DVBC is a non-profit corporation formed to educate the public as to the safe use of the bicycle through lectures, seminars, planned rides, and other activities promoting the bicycle as an efficient and enjoyable means of exercise, recreation, and transportation.

Non-members are welcome on rides, but are urged to consider their ability and experience when selecting a ride. (See Ride Guidelines.) All rides are subject to cancellation due to weather. If in doubt about the weather or level of difficulty of the ride, please call the ride leader. Though the use of safety equipment, particularly helmets, is strongly urged, the club cannot accept responsibility for accidents or injury while participating in a DVBC event.

Application for 1990 DVBC Membership (Expires 2/28/91)

Magazine, nd free Bicy mily member bership attra	
idual – \$10 Magazine, nd free Bicy mily membership attra	Family – \$14 discounts at most ycle Touring Newsership includes two acts advertisers and
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Media, PA 19063

The DVBC Safety Foundation is established to promote bicycle safety in the Delaware Valley using posters, flyers, bumper stickers and rewards.

I wish to donate to the DVBC Safety Foundation:

□ \$1 □ \$2 □ \$5 □ \$10 □ \$15 □ \$20 □ \$25

Membership to DVBC Subdivisions

You <u>must</u> join the main organization (left half of this form) in order to be able to join a DVBC subdivision.

- □ \$7.00 DVBC-Team Drexel Hill (Road Racing)

 Drexel Hill Cyclery
- ☐ \$5.00 Team Delaware Valley Bicycle Club

 Team Casual! (Road Racing)
- □ \$5.00 DVBC Triathlon Div.
- □ \$5.00 DVBC Tandem Div.

Total Amount Enclosed