

S W I M M I N G

Vol. 32, No. 3 • March 1991 • \$2.50

SW

W O R L D

AND JUNIOR SWIMMER

SIX

WORLD

RECORDS

DOWN

UNDER



— — — — —



THE FINALS

THE FINALS®



THE FINALS WOULD LIKE TO CONGRATULATE OUR TOP 50 TEAM DEALERS

Toad Hollow Athletics
22 Waterloo Ave.
Berwyn, PA 19312
1-800-322-8623

Siesta Key Swim Shop
7650 S. Tamiami Trail
Sarasota, FL 34231
1-800-346-2571

MacCurdys Swim
2500 Loch Haven Dr.
Plano, TX 75023
1-800-999-1725

Cy's of Cantonville
719 Frederick Rd.
Cantonville, MD 21228
(301) 747-8760

Erie Sports Store
124 East 8th Street
Erie, PA 16501
(814) 452-2289

Sport Flair
5121 Lee Highway
Arlington, VA 22207
(703) 524-9500

USA Aquatics
4001 Hillsborough St.
Raleigh, NC 27607
(919) 839-8721

Pacific Swim & Sport
2310 J Street
Sacramento, CA 95816
(916) 442-7946

Morley Athletic Supply
208 Division Street
Amsterdam, NY 12010
(518) 842-9191

Dale's Swim & Beach
1339 Orange Ave. #11-B
Coronado, CA 92118
(619) 435-1757

The Varsity Swim Shop
12 Main Street
Andover, MA 01810
1-800-622-2120

Nor Cal Swim Shop
4066 Fairfax Drive
Napa, CA 94558
1-800-752-SWIM

Paradowski's Swim
2626 E. 15th Street
National City, CA 92050
(619) 267-9010

Georges Swim Shop
59 Mesta Dr.
Washington, PA 15301
(412) 225-9177

Harbert Brothers
2338 Shattuck Ave.
Berkeley, CA 94709
(415) 843-0717

Heffner's Sports Specialties
1650 West Market St.
Akron, OH 44313
(216) 873-1700

Swimmers Edge
7532 Janes Avenue
Woodridge, IL 60517
1-800-441-SWIM

Swim and Sweat
39 Strangl Road
Flemington, NJ 08822
(201) 788-0882

Gardenswartz Sports
2437 Menaul N.E.
Albuquerque, NM 87107
(505) 884-1234

Gulbenkian Swim Shop
70 Memorial Plaza
Pleasantville, NY 10570
(914) 747-3240

Jacobsen's
123 Joan Drive
Barrington, IL 60010
1-800-346-2575

Dick's Finals
2005 Grandview Dr. W.
Tacoma, WA 98466
(206) 564-7957

Paul Blair & Associates
5417 Country Club Blvd.
Little Rock, AR 72207
1-800-999-SWIM

All Sports
104 E. Main Street
Bloomsburg, PA 17815
(717) 784-6812

Swim Suits West
6650 N. Blackstone #10
Fresno, CA 93716
(209) 435-4898

Ultimate Swim Shop
1392 Irving Street
Rahway, NJ 07065
(201) 388-3377

Palo Alto Sports
526 Waverly Street
Palo Alto, CA 94301
(415) 328-8555

Adler Sporting Goods
26300 Cedar Road
Beachwood, OH 44122
(216) 464-8340

Winks
785 G-3 Oak Grove
Concord, CA 94520
(415) 798-0470

Conejo Swimworks
135 E. Wilbur Road
Thousand Oaks, CA 91360
(805) 379-4734

Athlete's Outlet
P.O. Box 9475
Long Beach, CA 90810
1-800-541-8035

Friends Unlimited
2960 Forest Chase Ter.
Marietta, GA 30066
(404) 928-2561

Swim Zone
918 4th Street N.
St. Petersburg, FL 33701
(813) 822-7946

Elsmore Aquatics
600 South Lakeshore Dr.
Lake City, MN 55041
1-800-642-7618

Texas Aquatics Swim Shop
1900 East Campus Drive
Austin, TX 78705
(512) 471-7433

Walter's Swim Supplies
134 N. Main Street
Thiensville, WI 53092
(414) 242-6596

SWAT Pro Shop
1720 A Marsh Road
Wilmington, DE 19810
(302) 478-0992

Action Accents
906 42nd Street
Des Moines, IA 50312
(515) 279-2911

Laux Sporting Goods
25 Pineview Drive
N. Towanda, NY 14120
(716) 691-3367

Sylvia's Swimwear
14100 N.E. 20th Street
Bellevue, WA 98007
(206) 747-1131

Swim Pro
10839 Lanham Severn Rd.
Glendale, MD 20769
(301) 464-6923

Lane's Swim and Sport
3516 Wimberly Court
W. Bloomfield, MI 48033
(313) 626-8636

Swim Tech
11370 Kenyon Road
Mt. Vernon, OH 43050
1-800-800-4009

Efingers Sporting Goods
513 W. Union Ave.
Bound Brook, NJ 08805
(201) 356-0604

Swim & Such
114 S. State Street
Peoria, IL 61602
(309) 692-1309

Masters Sports Aquatics
11724 Main Street
Middletown, KY 40243
(502) 245-9811

Swim & Run Shop
514 N. 16th Street
Boise, ID 83702
(208) 385-0105

Toth's Sports
60 Saginaw Drive
Rochester, NY 14623
(716) 473-4280

Beaver Distributors
601 Merchant Street
Ambridge, PA 15003
(412) 266-4470

The Sprint Lane
4101 Church Road
Mt. Laurel, NJ 08108
(609) 235-9882

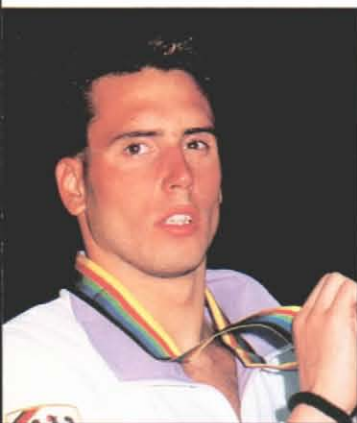
An official sponsor of:



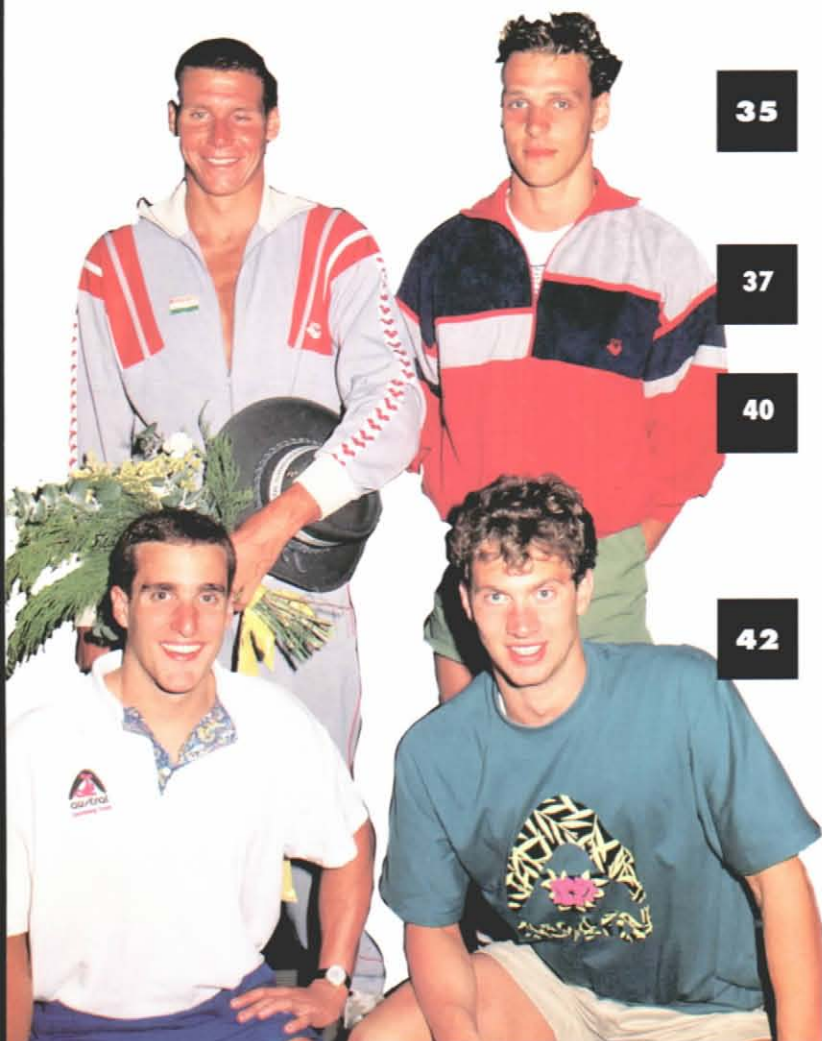
United States
Masters
Swimming



SWIMMING SW WORLD AND JUNIOR SWIMMER



Perth's primary players, setting six world records, were Jorg Hoffman (above) and (clockwise, top left) Tamas Darnyi, Norbert Rozsa, Melvin Stewart and Mike Barrowman.



VI WORLD CHAMPIONSHIPS

18

SWIMMING

Six world records were set at Perth—all by men.
By Russ Ewald

25

BEHIND THE HUNGARIAN SUCCESS

Hungary's national team coach, Tamas Szechy, has learned not to leave the slightest detail to chance.
By Russ Ewald

35

DIVING

China shows its form, winning four of six events.
By Russ Ewald

37

SYNCHRO

Americans regain their luster, nabbing two of three golds.

40

LONG DISTANCE SWIMMING

The 25-km race proved to be a successful first-time event at the World Championships.
By Steven Munatones

42

WATER POLO

Yugoslavia defended its men's crown and Holland won its third women's title of the last four World Championships.
By Matt Farrell

- 7 Newswave
- 9 CSCAA
- 11 American Relays
- 13 TYR Age Group Swimmers
- 16 U.S. Swimming
- 44 Camp Listings
- 55 For the Record
- 60 Calendar
- 62 Classified
- 64 SwimMart
- 68 Advertisers Index

On the cover: Melvin Stewart reacts to his world-record swim in the 200 fly. (Cover photo by Simon Bruty/All-Sport)

A full-page advertisement featuring a woman standing on a diving board. She is wearing a one-piece swimsuit with a bold, geometric pattern of blue, pink, and black diagonal stripes, accented with thin green lines. Her hair is pulled back, and she is looking down. The background shows a swimming pool with red and white lane markers. The brand name 'HIND' is visible in the top right and on the swimsuit.

HIND

ALL
ABOARD

For a dealer near you or a free catalog, call: 800-426-4463

REPRESENTATIVES: Rumen Atanasov, Bulgaria; Dawn Bean, Santa Ana, Calif.; M. Biegler, Brown Deer, Wis.; Anne Bloese, Plantation, Fla.; Helmut Bock, West Germany; Ota Cernock, Washington, D.C.; Col. Bill Cope, Novato, Calif.; Leslie Cranfield, Great Britain; Buck Dawson, Fort Lauderdale, Fla.; Joe Domitz, Whitewater, Wis.; John A. Dunnigan, Baltimore, Md.; Monika Forner, Apple Valley, Minn.; Michael Frank, New York, N.Y.; Robert Kersch, Long Island, N.Y.; Ed Liefried, Exeter, N.H.; Dr. Gary Mihelish, Helena, Mont.; James Noyes, Lawton, Okla.; Jack Ryant, University, Ala.; Luigi Saini, Italy; Don Shycoff, Bowie, Md.; Mary Jo Swalley, Santa Barbara, Calif.; Nick Thierry, Canada; Larry Treadgold, San Jose, Calif.; Molly Turkish, Lewiston, Maine; Alfonso Victoria, Venezuela; Dorothy Welsh, San Antonio, Texas.



PINE CREST

June 9 to August 10, 1991

There are many swim camps in the United States to choose from this summer — but only Pine Crest Swim Camp offers all the benefits of a true swim training “camp.”

Pine Crest combines twenty-three years of experience running swim camps with their outstanding facilities (two 25 yard pools and one 50 meter pool) and the finest coaching staff anywhere, under the direction of Camp Director, Gary T. Butts.

Camp Program 1991

- ☐ Designed for boys and girls ages 8-18.
- ☐ Swimmers live in fully supervised, air-conditioned dorms on Pine Crest's 47 acre campus.
- ☐ There will be 2-3 water workouts each day, long and short course.
- ☐ Color video of each swimmer.
- ☐ All meals served in Pine Crest's on-campus dining hall.
- ☐ One hour stroke class each day.
- ☐ Mental training class stresses personal, physical and emotional preparedness.
- ☐ Complete program of supervised extracurricular activities including water sports, excursions to Disney World, movies and much more.
- ☐ For more information:

(305) 492-4173

FAX (305) 492-4169

Swim CAMP

FOR APPLICATION/BROCHURE, WRITE TO:

PINE CREST SWIM CAMP

1501 NE 62nd STREET
FORT LAUDERDALE, FLORIDA 33334

NAME _____ AGE _____

STREET _____

CITY _____

STATE _____ ZIP _____

TEL. (_____) _____

NEW

FINALLY LEAK-FREE!

ROUND



Steve Lundquist,
Olympic Gold
Medalist,
found his perfect
match with
Round-Shaped
Goggles.

OVAL



Rowdy Gaines,
Olympic Superstar
discovered
he has
Oval-Shaped
Eye Sockets.

**GO test yourself NOW, at your favorite
sporting goods store, using Leader's
R.O.S.E.S.® * Fitting System.**

*Round. Oval. Shaped. Eye. Socket.



Carolyn Waldo
Double Gold
Medalist,
avoids Skin Irritation
with LEADER'S
durable padding that
Molds to her face.



Leader's Deluxe Collection/Competition and Leisure Series Goggles feature PermaVue® Anti-Fog/Polycarbonate, Shatter-Proof, Distortion-Free, U.V./Blue Light Screened Lenses. Also available with Corrective Lenses. Consult your eye doctor.

Official Supplier of

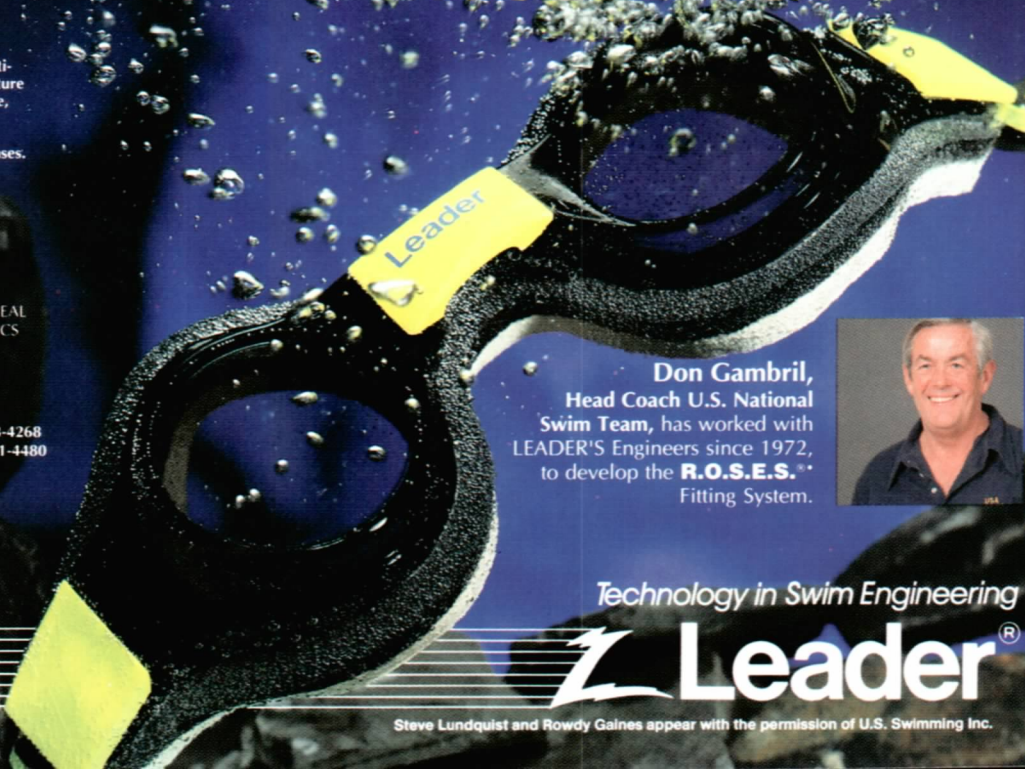


SERVICE
NATIONAL
DES
SAUVETEURS



1976
MONTREAL
OLYMPICS

60 LAKESHORE ROAD ESSEX, N.Y. U.S.A. 12936/518-963-4268
1280 NOBEL BOUCHERVILLE QC. CDN J4B-5H1/514-641-4480



Don Gambril,
Head Coach U.S. National
Swim Team, has worked with
LEADER'S Engineers since 1972,
to develop the **R.O.S.E.S.®**
Fitting System.

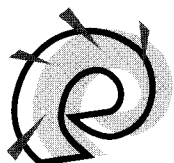


Technology in Swim Engineering

Leader®

Steve Lundquist and Rowdy Gaines appear with the permission of U.S. Swimming Inc.

Major Change In Backstroke



Several rules changes were adopted at the International Amateur Swimming Federation (FINA) congresses Jan. 1-3 in Perth, West-

ern Australia. All of the new rules will become effective March 3, 1991. Listed below are a summary of the changes:

- The requirement that backstroke swimmers must touch the wall at the turns with a hand was eliminated. This should permit the swimmers to anticipate their turns as they do in freestyle events.

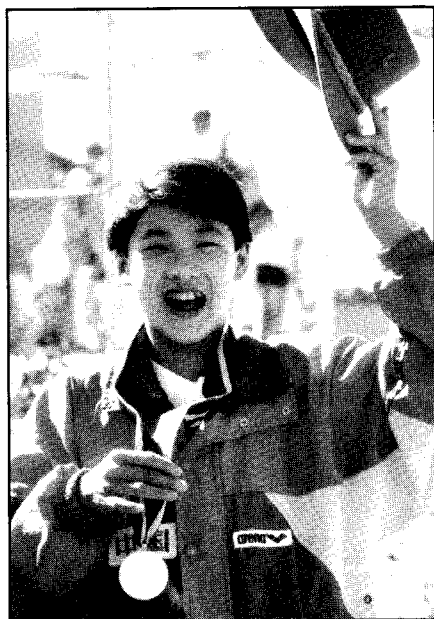
- The distance a swimmer may remain underwater at the start of the backstroke events was lengthened to 15 meters. In Seoul, FINA had instituted a 10 meter restriction after some finalists stayed underwater for more than 20 meters. However, the determining point will now be the head breaking the surface instead of the toes.

- The number of false starts a swimmer is permitted before being disqualified was reduced to one. The rule previously allowed two false starts.

- There will be world records recognized for competition in 25 meter (short course) pools. This will increase to 34 the number of events for which FINA recognizes world marks.

The FINA diving technical committee passed a rule stating that as of March this year no diver younger than 14 years of age (as of December 31 in the year of competition) will be eligible to compete at the World Championships, Olympic Games and World Cup meets. The intention of the rule is to protect divers' long-term health.

"The medical evidence we have," said Jack Sanders, committee secretary, "suggests diving from the 10-meter platform while a child's bone structure is still developing has no immediate



Fu Mingxia

effect but problems may occur later in life."

China voted against the rule and the United States for it. Its passage means

world platform champion Fu Mingxia, 12, will not be able to compete in the World Cup May 1-5 in Winnipeg, Canada. Fu, born in August, will be eligible for the Olympics next year, however, because the age limit is based on being 14 in the calendar year of the meet instead of the age at the time of the competition.

In another change, the diving committee created a tournament format for the 1-meter springboard event at future World Championships.

The two significant changes for water polo were recognizing a smaller ball for women than is currently used and reducing the time that a player may be ejected for a foul from 35 seconds to 20 seconds.

In synchronized swimming, the degrees of difficulty for figures competition were revised and the number of figures to be performed in FINA events was reduced from six to four.

**THE SWIMSUIT ISSUE
FOR THOSE WHO'D
RATHER KICK BUTTS
THAN STARE AT THEM.**



IT'S THE FINALS NEW 1991 CATALOG. FEATURING THE KIND OF HIGH QUALITY SWIMWEAR YOU'D EXPECT FROM THE NUMBER ONE NAME IN COMPETITIVE SWIMMING. FOR A FREE FINALS CATALOG, CALL 1-800-431-9111. 8:00AM-6:00PM MON.-FRI. E.S.T.

THE FINALS®

A "sprint day" was held on the eve (Jan. 6) of the swimming competition at the World Championships. It featured heats and finals for 50 meters in backstroke, breaststroke and butterfly and 4 x 50 free relay for both men and women and was intended to gauge interest in these events for possible inclusion as medal competitions in future championships.

The program received a couple of setbacks, though, when the United States chose not to compete and Australia withdrew from the finals after qualifying nine and a relay team in the prelims. The U.S. staff decided that either all the swimmers would compete or none and took a team vote where the majority preferred not to enter. Australian head coach Don Talbot made the decision for

his team, angering the Perth organizing committee which then offered refunds to spectators because there was no advance notice about the Australians.

Qian Hong of China won the 50 meter fly in 27.30, unofficially the fastest ever, to highlight the finals of the sprints. FINA recognizes no records in the sprint strokes. The events are swum primarily in Europe where the 50 fly mark is 27.54 by France's Catherine Plewinski. Mary T. Meagher covered the opening 50 in 27.75 on the way to her world record of 57.93 in the 100 fly. Following are the results of the sprint day finals:

Women
50 Back
 29.53
 29.67
 30.06
50 Breast
 32.65

Yang Wenyi, CHN
 Sylvia Poll, CRC
 Eva Gysling, SUI
 Julia Lankik, URS

32.77
 32.83
50 Fly
 27.30
 27.70
 28.06
200 Free Relay
 1:44.09
 1:46.82
 1:49.00

Lorraine Coombes, GBR
 Keltie Duggan, CAN

Qian Hong, CHN
 Wang Xiaohong, CHN
 Sarah Evanetz, CAN

Germany
 Canada
 Romania

Men
50 Back
 26.44
 26.57
 26.67
50 Breast
 28.67
 28.73
 28.75

Dirk Richter, GER
 Mark Tewksbury, CAN
 Vladimir Shemetov, URS

Chen Jianhong, CHN
 P. Manu Hernandez, CUB
 Christian Poswiat, GER

50 Fly
 24.95
 25.03
 25.05
200 Free Relay
 1:30.68
 1:34.26
 1:34.97

Thilo Haase, GER
 V. Novikov, URS
 Milos Milosevic, YUG

Germany
 Canada
 Norway



Take A Bite Out Of The Competition.

Piranha SWIM GOGGLES

Introducing the new PIRANHA Swim Goggle. The PIRANHA is the latest innovation in competitive goggle technology. The unique wrap-around design allows you to always keep an eye on the competition, and the easily adjustable strap and nosebridge system make adjustment a snap. Try PIRANHA and put some teeth in your time.

Distributed by: BARRACUDA Sports Products
Skyline Northwest Corporation
 0224 S.W. Hamilton St., Portland, OR 97201
 (503) 241-0528 • (800) 547-8664

Limited Changes



The NCAA convention in Nashville adopted major legislation designed to cut costs, reduce

time demands on student-athletes and refine membership criteria for divisional membership.

The full effects of the legislative action for non-revenue sports like swimming and diving will probably not be known immediately, but our sport scored more "victories" than any other, and, clearly, the perspective of the swimming community was advanced by hundreds of letters to college presidents and key administrators.

How will collegiate swimming dif-

fer? There will be fewer coaches, as limitations were established for one head coach, one assistant coach and one "limited earnings" coach (usually, graduate assistants) for each men's or women's team.

There will be fewer scholarships, as new maximum grant-in-aid allowances are 9.9 scholarships for men's swimming and 12.6 scholarships for women's swimming.

These cost reduction measures were instituted for all sports, however, and some marginal collegiate programs conceivably may be saved because of overall athletic department budget reductions.

Mandatory practice time (that which a coach can require) is limited to 20 hours per week for the 24-week colle-

giate swimming season and eight hours of strength straining during the remainder of the school year.

However, voluntary practices are allowed throughout the year, and not only may the coach be present during these voluntary sessions, he/she may give "skill instruction" (although not technically able to "conduct" the workout).

Our most dedicated athletes will be able to pursue their goals with workout time that can be the same as previously done; the distinction is between "mandatory" and "voluntary" participation.

One of the few pieces of legislation passed at the convention that can be considered a true "victory" was the continued ability of swimmers with remaining eligibility to train with their college coaches during the summer

truWestTM

Introduces the . . .

NEW PRICE BUSTER PARKA

WATERPROOF NYLON
19 OZ PLUSH PILE LINING
DURABLE TRUWEST QUALITY
15 outside colors/10 inside colors

AS LOW AS
\$49.95

CALL TOLL FREE

NATIONWIDE	800 322-3669
CALIFORNIA	800 451-8401
LOCAL	714 895-2444
FAX	714 891-0551

In a hurry?.....ST1 PARKAS IN POPULAR TEAM COLORS
IN STOCK FOR IMMEDIATE SHIPMENT.

NEW STYLE PB90

TRUWEST, INC., 5152 Bolsa #101, Huntington Beach, CA 92649

months. This was regarded as a toss-up issue going into the convention, and the efforts of strong leaders like Joan Cronan

of Tennessee and Donna Lopiano of Texas were instrumental in this area.

The net effect for swimming is likely

to be negligible, and our sport came through more favorably than any other. Continued work by the swimming community will be necessary to help the "fine-tuning" process which will almost certainly see areas of inequity removed.

The CSCAA will support the actions taken at the 1991 convention to produce reform in intercollegiate athletics. We will continue to work with the NCAA Presidents Commission and the NCAA Council in providing input that is relevant to swimming. We will proceed with the documentation of the academic success of swimmers in college.

Most importantly, we will encourage every college swimming team in America to become actively involved with community and campus service projects (volunteer work) which will show that our student-athletes are extraordinary individuals and "good citizens" who can serve as role-models for youth everywhere.

The vote among Division I presidents regarding time demand legislation was 299-28. Given the overwhelming consensus for reform, it would be unwise to continue our active letter-writing and public awareness campaign.

The next battles will be won on the basis of performance in the classroom and in the community because if we are going to be successful in reversing some of the changes made at the 1991 convention, it will be because our sport has shown itself as a model for others to emulate.

It's a challenging prospect, but I have every confidence that our student-athletes and coaches will respond in an overwhelmingly positive way.

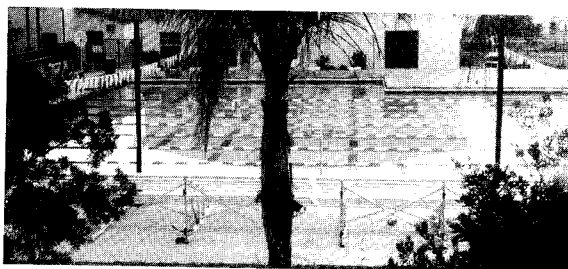
We can show college presidents that student-athletes in our sport are not only part of the "mainstream" of college life, but, instead, they are truly exemplary in fulfilling academic expectations at a high standard of excellence and in being individuals who care about the world around them. ∞

SAINT EDWARD'S SCHOOL SWIM CAMP "ON THE BEACHSIDE"

Vero Beach, Florida

Male/Female 10 & over

April 2-6



- Stroke and Skills Camp
- World Class Coaches
- Speed/Skill meet
- Shuttle to and from airport and campus daily
- Lodging at Days Inn Vero Resort (beachfront)
- Cost \$325 (5 nights—Monday-Friday)
- Day camp format available
- Supervised recreation/trips

Contact our travel department (1-800-926-5967) for discounts with Delta Airlines
Registration/Deposit needed by March 15, 1991

SPECIAL OFFER! COACHES OR A PARENT, BRING 3 SWIMMERS AND YOUR LODGING IS FREE.

CONTACT: Steve Fenning, Aquatics Director
(407) 231-7048/4136
St. Edward's Drive
Vero Beach, FL 32963

Swimmers Goggles in 14k Gold

All 14k gold swimmers goggles with strong, double loop, 16" standard link chain and lobster claw clasp, \$175.00.

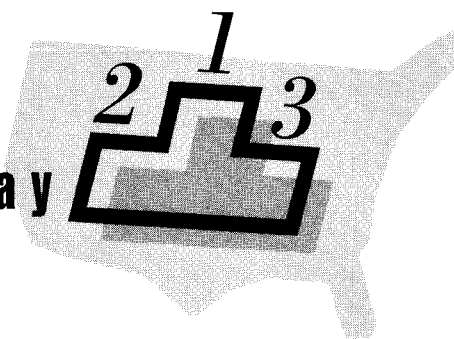
All Sterling Silver swimmers goggles with strong, double loop, 16" standard link chain and lobster claw clasp, \$85.00.

Call 317-255-5955 or FAX 317-253-0760.

VISA and Mastercard accepted, add \$4 shipping and insurance, Indiana residents add 5% sales tax.

G. Thrapp Jewelers, 5609 N. Illinois, Indianapolis, IN 46208.

American Relay



ARIZONA

At the end of a very successful year for the Arizona Marlins (Phoenix), the team held its annual Awards Banquet in November. Outstanding swimmers were Cameron Ballinger and Louis Fidel, 8-and-under; Erin Ballinger and Joe Ketterling, 10-and-under; Lisa Fritsche and Jeff Personius, 11-12; Heidi Knowler and Kris Escher, 13-14; Becky Crowe and Matt McGhie, Senior. The coach's award went to Travis Larson.

FLORIDA

Congratulations go to the Plantation Swim Team, which celebrated its fifth anniversary Feb. 2. One of the original team members, Eric Christensen, has scored in the top eight at Junior Nationals and plans to compete at the senior level this year. Laura Doepp, Patty Sykes and Kelly Fleming are now swimming at college, but return to the team each summer to provide additional leadership. Newer team members Brooke LeBlanc and Vicki Wattles have made their marks on the national scene: LeBlanc is a senior national qualifier, and Wattles has competed in two junior national championships and is looking for senior national qualifying times. Not to be outdone, the 9-14 age groupers are helping PST toward its goal of becoming No. 1 on the Motivational Times list. Couple that with an outstanding group of coaches, led by June Woolger, and it's easy to see why Plantation has had a great five years of success and can look forward to many more.

GEORGIA

The 11th annual Woodie B. Malone Invitational was held at the Dynamo Swim Club's pool in Atlanta Dec. 7-9. SwimAtlanta won the meet, Dynamo was second and third went to the Cobb Stingrays. Bobby Brewer from Tara Tarpons had an outstanding meet, breaking five 15-16 Georgia state records: 50 free (20.78), 100 free (45.36), 100 back

(49.37), 200 back (1:47.74) and the 200 IM (1:49.77). Brewer was the only swimmer to set state marks at the meet.

HAWAII

Hawaii Swimming is "hot" and competition was fast and furious in the final days of 1990. The Aulea Invitational hosted teams from neighboring islands and Oahu as well as teams from Japan, Switzerland and Tahiti. Outstanding swimmers were Kathy-Lyn Allen (PAQ) and Kevin Flanagan (OCST).

The 1991 Hawaii high school season has begun and the 14th annual Kalani Invitational hosted the best high school athletes in the state. For the boys, Kevin Lo was a three-event winner (200 IM, 1:59.60; 100 fly, 53.68; 100 breast, 1:02.25) while John Flanagan won two freestyle events (200, 1:47.52; 500, 4:47.78). On the girls' side, Kathy-Lyn Allen took the 200 IM (2:11.21) and 100 fly (58.06), and Celeste Jacroux swept the distance free events (200, 1:55.82; 500, 5:21.32).

KANSAS

Two swimmers from the University of Kansas, Curtis Taylor and Barb Pranger, earned perfect 4.0 grade point averages during the fall 1990 semester. Taylor is a freshman business major, while Pranger is a junior majoring in exercise science/pre-physical therapy.

MINNESOTA

Lynn Newton, a junior at the University of Minnesota, was selected the December Athlete of the Month by the Minnesota Sports Information Office. In December, Newton scored nine victories in six different events. At the Minnesota Invitational she won the 400 IM (4:31.61), the 1650 free (16:48.29) and was a member of the winning 800 free relay (7:39.76). Against Hawaii and Utah, Newton won the 500 free (4:59.82), the 1000 free (10:05.50) and was a member of

If you need energy...

Try PowerBar.

PowerBars are a healthful, satisfying snack or light meal replacement before swim workouts, competitions or whenever you want to perform at your best.

PowerBar

is

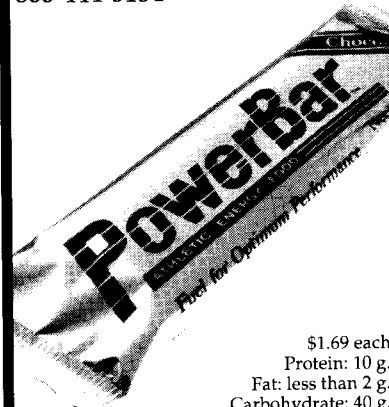
Fuel for Optimum Performance®

Coaches

We'd like you to try PowerBars **free** (no obligation). Write on your letterhead to Laurel Lynch, Powerfood, 1442A Walnut St. Berkeley CA 94709

Available at sports and health food stores. Call for the location of your nearest dealer.

800-444-5154



\$1.69 each
Protein: 10 g.
Fat: less than 2 g.
Carbohydrate: 40 g.
**In Malt-Nut, Chocolate
and Wild Berry flavors**

©1991 Powerfood Inc.

the winning 400 free relay (3:37.77). The 1000-1650 frees and 800 free relay were season-best times up to that point.

NEW JERSEY

The New Jersey Swimming Holiday Classic included nearly 1,100 swimmers and 45 teams representing 10 states from New Hampshire to North Carolina. The fourth annual classic, hosted by the Eastern Express Swim Team Dec. 14-16, held competition at Trenton State College and the brand-new Denunzio Pool at Princeton University. Forty-three senior national and 89 junior national qualifying times were achieved, and 57 new meet records out of 110 events were established. The top ten teams included: Peddie (670), New Jersey Wave (574), Bernal's Gators (313), Somerset Hills Y (291), Ridgewood Y (281), Philadelphia Dept. of Rec. (280), Upper Main Line Y (273), Berkeley Aquatic Club (260), Eastern Express (237) and Naval Academy Juniors (129).

The Voyagers Swim Team of Voorhees attended the 29th annual Allegheny Mountain Christmas Meet Dec. 14-16 at the University of Pittsburgh. Highlights of the team's performance included the 11-12 boys relays, which placed first in both the 200 medley and 200 free relays. The team members were Jon Maslow, Tim Bieg, Mark Beckler and Adam Ritchie. Jason Rosenbaum, 17, placed first in the 50 free (20.69, good for a senior national qualifying time and meet record), second in the 100 free (45.25, another senior time and meet record), fourth in the 100 fly (50.29) and sixth in the 200 free (1:41.92). The latter two times were junior national qualifying times.

NEW YORK

Jon Guljord was named the 13-14 boys Outstanding Swimmer after winning seven individual events to lead the Long Island Aquatic Club to the New York State Swimming Team Championship, held in Buffalo Dec. 14-16, 1990. They beat



NORTH CAROLINA: Craig Hertz, John Rendall, Brian Spaulding and Chris Rendall (l-r) of the Greensboro Swimming Association broke NAG 11-12 boys relay marks in the 200 medley (1:51.24) and 200 free (1:37.98) at the NCS Fall States Championships.

second place Star Swimming of Buffalo 2,380-2,255. Finishing in third place was Gotham Aqua Kings of New York City with 1,855 points. Other state champions from Long Island were Jimmy Heitner, 13-14 boys 100-200 breast; Tom Zanetti, 13-14 boys 200 fly; Brian Valenza, 13-14 boys 100 fly; Grace Walsh, 15-18 girls 100-200 breast; Sandy Amisano, 11-12 girls 500 free.

NORTH CAROLINA

James Roberts has collected \$1,968 for the Lumberton Lightning Bolts' Swim-a-thon and leads all individuals in North Carolina. He's also sixth in the nation, as of Dec. 15. Greensboro Swimming Association (No. 8 in the nation) has earned \$14,445.50 and is the top North Carolina club. Additionally, Charlotte Swim Association is 10th in the U.S. among YMCAs with total revenues of \$2,650. North Carolina is fourth among LSCs with \$2.25 per athlete.

TEXAS

The ATEX Swim Team of Beaumont raised over \$9,000 with 28 swimmers participating in their 1990 Swim-a-thon. Twenty-six of the 28 swimmers received

T-shirts for raising \$100 or more for their team. The top three fundraisers for ATEX were Thurston Mansfield (\$2,062, first place), Andrea Heap (\$1,350, second place) and Amanda Smith (\$700, third place). Rebecca Stelly, Deborah Stelly and Lauren Williams also received awards for raising \$500 or more. Heap is only eight years old, and in her first year with ATEX.

The City of Plano Swimmers has welcomed Robin Dyer as assistant coach for the National, Senior and Senior Development workout groups. Dyer has 16 years of experience with USS, high school, college and masters programs, most notably with the Union Aquatic Club (N.Y.), where he led the team to the 1980 state championship.

VIRGINIA

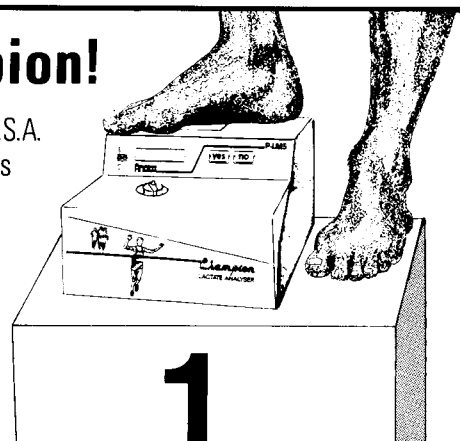
Scott Griffith, a senior at Waynesboro High School, was elected team captain for SMAC (Waynesboro). He has swum with SMAC for 11 years, was tri-captain last year and finished at summer YMCA Nationals. Griffith has qualified for more individual races at Y Nationals than any male SMAC swimmer ever. ∞

First Place with an Analox Champion!

The new **Analox CHAMPION Lactate Analyser** is now available in the U.S.A. The ultimate in compact portability and simple operation, the **Champion** uses just 2 buttons for YES or NO to control all its functions. Battery (or line) powered, results are printed-out only 20 seconds after injecting a sample.

For further information or demonstration please contact:-

Martin Widdowson, **InterCon Inc.**,
1308 Parkland Ct., Champaign, Illinois 61821, U.S.A.
Tel: (217) 398-1020; Fax: (217) 398-1074



Age Group Swimmers Of The Month



Candidates for "Age Group Swimmers of the Month" must compete within a nationally recognized age group.

Please send a short, typewritten (double-spaced) personality sketch and a black-and-white photograph (preferably a face shot) of each nominee or request a Swimmer Profile form from Swimming World.

JON FALCONER **Rockford Marlins Swim Club** **Rockford, Illinois**

Jon Falconer, even at the young age of 10, is focused and in tune with his goals and what it will take to reach them. His coach at the Rockford Marlins, Kevin Quitmeyer, says, "It is rare to find a swimmer his age so focused."

At the Illinois Long Course Junior Olympics last summer, Jon sped to fourth-place finishes in both the 50 and 100 meter breaststrokes with times of 44.27 and 1:37.30. A few weeks later, he moved a step up and competed in the Central Zone Championships at Grand Forks, N.D., and earned a 16th-place finish in the 50 breast (44.46) plus a 13th-place showing in the 100 breast (1:38.87).

After those two strong showings, Jon continued to excel during the short course season. He's turned in recent time drops in the breaststroke, which has coincided with increased concentration on his technique.

Although most of his noteworthy performances have come in his specialty, the breaststroke, Jon has also accomplished at least as much, if not more, in developing his other strokes.

"He is a proficient all-around swimmer," comments Coach Quitmeyer, "and I look for versatility to be one of his strengths in the future."

Last December, the Brookview Elementary School 5th-grader competed at the Great Lakes Championships in Evanston, Ill. He won the 100 yard breast, tying the meet record with a 1:21.84. He also placed second in both the 50 breast with a 4-A time of 36.59 and the 100 IM with a 3-A time of 1:13.74. Jon demonstrated his versatility with a fourth-place finish in the 50 free (29.35, AAA), fourth in the 100 free (1:05.00, AA) and sixth in the 50 fly (32.40, AAA).

"Jon's recent success has resulted in his approaching his training with redoubled vigor and intensity," claims Coach Quitmeyer. Yet Jon still finds time for other activities, too.

"Other than swimming, I have played soccer, tennis, golf, basketball and enjoy skiing," says Jon. "I have won trophies playing soccer, tennis, golf and with my pinewood derby car."

As for short- and long-range goals, Jon keeps a good balance between swimming and scholastics: "I'm earning good-enough grades to be on the honor roll, and I'm trying to keep it that way. When I grow up, I want to be a radiologist."

"My swimming goals include going to nationals and getting a scholarship to a nice college."

"I'd also like to go to JOs in two or three more events and keep on going to Zones (Central Zone Championships)



Jon Falconer

and Quads (Mid-States Quadrangular)."

LIESELLE TRINIDAD **West Side YMCA Marlins** **East Harlem, New York**

Last season, the fastest time for 11-12 girls in the 50 yard butterfly was 26.78; the second fastest time was Lieselle Trinidad's 26.98.

This season, on December 14, at the USS New York State Team Championships in Buffalo, Lieselle, two months short of turning 13, swam a 26.62. At that meet, she received the runner-up high-point award for 11-12 girls.

An 8th-grader at The Center School, a New York City public school for talented children, Lieselle has been swimming for six years. On December 8, she took the intensely competitive admissions test that determines entrance to the handful of prestigious New York City public high schools.

For two-and-a-half months, she spent 14 hours a week preparing for this test—

Age Group Swimmers



preparations that cut her training time for the Buffalo meet in half.

Lieselle swims for the West Side YMCA Marlins, a 70-swimmer team formed five years ago by her father and coach, Juan Trinidad.

Pool time is sparse in Manhattan, so five days a week Lieselle commutes across town from her apartment on the West Side to swimming practice at a facility rented by the Marlins in East Harlem.

Bilingual since birth (both her parents are from the Dominican Republic), Lieselle used her Spanish in July 1989 when she competed in the XVI Biannual Central American and Caribbean Games, an international FINA meet that attracted teams from 31 countries to Caracas, Venezuela.

Lieselle set a Games record in the 50

meter butterfly with a time of 31.32 and tied for the high-point trophy with a Venezuelan swimmer, Anamar Rada. She improved upon her 50 fly time later that summer with a 30.45 to rank her fifth in United States Swimming's National Age Group Top 16 long course 11-12 list.

Lieselle has represented the Metropolitan LSC in the Eastern Zone Championships five times, two long course and three short course. Next month, she will compete in her first national meet, the YMCA nationals in Orlando.

Before swimming, Lieselle's first sport love was gymnastics, where she competed for two years, inspired by Nadia Comaneci. She has seen the movie, *Nadia*, five times! Now, however, her attention has turned to Janet Evans!

A fourth-year student of piano, Lieselle has an interest in the arts, particularly drawing.

Her desire to be an architect fuels her effort to gain admission to the highly selective Brooklyn Technical High School, notwithstanding the one-hour subway commute from Manhattan to Brooklyn. —By David W. Welles

NICHOLAS MARKEY

**Cobb Stingrays
Marietta, Georgia**

Nicholas Markey has been swimming with the Cobb Stingrays in Marietta, Ga., since he was 8 when the team was just a newborn. In that first year, he aged-up shortly before the state championships, but was surprised to see that his best times as an 8-year-old would have won almost all of the 8-and-under events.

So he doubled his efforts and swam to several national Top 16 10-and-under cuts and anchored a Top 10 qualifying 200 freestyle relay.

Nicholas found the going tough as an 11-year-old in a very competitive Geor-



Nicholas Markey

gia age group, but he has found at age 12 that perseverance pays off.

Last summer, Nicholas earned a 15th-place ranking on the National Age Group Top 16 long course list among the 11-12 boys in the 50 meter back with a time of 32.64.

This past December at the Woodie B. Malone Invitational held in Chambley, Ga., at the Dynamo Pool, he won all seven of the 11-12 boys events he entered. His times in the 50 yard free (24.22), 100 free (52.98), 200 free (1:55.69), 100 back (1:02.89) and 200 IM (2:13.16) are all national Top 16 times, and he again anchored relays that qualified for national Top 10 consideration.

His coach, Pat Murphy, attributes his success to two main ingredients—great, natural technique and a joy in racing.

"He's not really out to beat his opponents," says Coach Murphy. "In fact, there are times that he seems apologetic.

"But it's truly exciting for him and for the people in the stands when he and another swimmer are coming home on the back stretch, and they're breathing toward each other, eyeball-to-eyeball. That's when he excels.

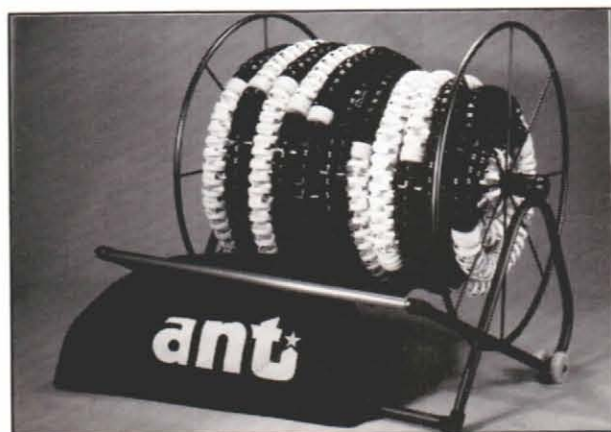
"Even so, he gets embarrassed by all the hoopla—he'd like to do the race and let the other guy get the trophy!" ∞



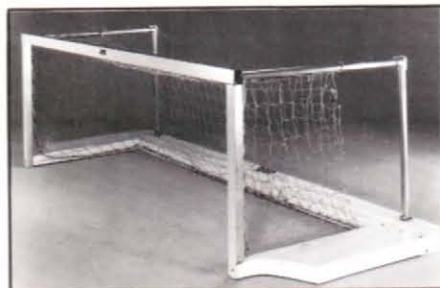
Lieselle Trinidad

ARE YOU CRAZY?

If you still think you can get a better racing lane at a better price from anyone other than AntiWave, then we think you *are* a little crazy! VIP-AntiWave is the prime manufacturer of ANTI-WAVE products. We mold fabricate and assemble all our products ourselves. So our quality is exceptional, and our prices are unbeatable. Let us send a Price Comparison Chart! AND... don't forget our **UNIQUE THREE YEAR WARRANTY PROGRAM.**



STORAGE REELS — The "Supreme" Storage Reel is anodized to a lustrous blue finish for optimum resistance to chemical, solar or environmental corrosion. **RACING LANES** — Our patented interlocking discs are molded in tough polyethylene with ultra-violet inhibitors and antioxidants for color stability and maximum durability. The cable is 1/8" stainless steel crosswoven aircraft cable with 2000 lb. test strength.



POLO GOALS — The Floating Goal, with redesigned light-weight ABS vacuumformed floatation panels, gives maximum flexibility. Wall goals are also available for deep and shallow ends.



MINI LANES — Sold as a kit, this inexpensive lane can be used for training as a pool divider, or water polo field demarcation.



STARTING PLATFORMS — The all-new Pacific is a two-piece laminated fiberglass platform with non-slip top and stainless steel back-stroke handle.

All Anti-Wave products have a 3-year warranty.
Ask our competitors about theirs!!

anti wave

1144 Northwest 53rd Street, Seattle, Washington 98107

1-800-426-7738 (206) 784-9050

Yes! Send me a copy of your new 4-color FREE brochure!

Name _____ Title _____

Business Name _____

Address _____

_____ Phone () _____

☐ User

☐ Distributor

☐ Dealer

U.S. Swimming

INSIDE U.S. SWIMMING

Wouldn't it be great if an Olympic gold medalist came to your pool and told your team that there is no substitute for hard work and dedication—and they listened? Wouldn't it be great if a world record holder paid a visit and helped your youngsters with their stroke technique? That would be great, wouldn't it?

The Phillips Petroleum Company and United States Swimming thought so, too, and in 1985 developed the Gold Medal Clinics, a huge success having reached thousands of young swimmers across the country. The program has become a great motivational and developmental tool in the sport.

Each clinic, a one-day, six-hour workshop, is conducted by three world-class swimmers and includes a variety of topics such as stroke technique, nutrition, safety, peer pressure, start and turn techniques and games. The clinicians, USS national team members as well as national and Olympic champions, are usually faced with 60 to 100 awestruck kids each clinic.

"The clinicians were inspiring, warm

and open," said clinic host Lyn Walker, Missouri Valley conference director. "I am confident that there was not a Missouri Valley swimmer there who did not feel personally touched by the interest that the clinicians had in them.

"Not all experts are able to communicate what they know," she added. "Each of our three clinicians did a marvelous job in teaching both the technique as well as the joy of swimming."

Another host impressed with the clinic is Varley Taylor, the president of SwimTulsa, secretary of the Oklahoma Local Swim Committee and host of GMCs for three years.

"Three years says it all," said Taylor. "It's been very successful in terms of retaining interest. The athletes we've had have been great. They are super with the kids."

Taylor also said that along with retaining interest, the clinics are great for recruitment and just getting the entire team excited about swimming.

"I think it's great that the Phillips Petroleum Company and U.S. Swimming make Gold Medal Clinics available," he added. "It is a unique opportunity for kids here. Not many have the opportunity to come in contact with Olympic swimmers."

Randy Walker, director of Sweet Water Aquatics Team, has hosted two GMCs. "The Olympic athletes really motivate the kids," he said. "It shows the kids that their goals are really possible. It gives them a plan saying, 'This is how hard it is,' with a positive influence."

Gold Medal Clinics have a positive impact on everyone involved. The kids get to meet their swimming heroes and learn more about good competitive swimming. And the clinicians are enriched by the fulfillment they gain through the experience.

"It's the number one opportunity to give something back to the sport," said Wade King, USS national team member,

Direct all questions to:
**U.S. Swimming
National
Headquarters**
1750 E. Boulder St.
Colorado Springs, CO
80909
(719) 578-4578

United States Swimming, Inc., is now, as it always has been, concerned for the safety of all its members. It will continue to disseminate such information as comes to its attention. However, United States Swimming cannot and does not accept responsibility for the content of any such information or material. All opinions and conclusions stated in any such material are solely that of the author(s) and not necessarily that of United States Swimming.

The opinions expressed on these pages are those of United States Swimming, Inc., and do not necessarily reflect the views of **Swimming**

Phillips 66/USS Gold Medal Clinics

USS will provide:

- A team of three members of the USS national team, former Olympians and national champions;
- Clinician transport to the host city;
- Clinician lodging, board and honorarium
- Handout materials for all participants.

USS Club/LSC will provide:

- \$1500 to USS National Headquarters 30 days prior to clinic;
- Local transportation;
- Pool with seating for spectators;
- Two deck microphones;
- Conference table, with chairs facing audience, equipped with microphones;
- Television and VCR.

Contact U.S. Swimming's Promotions Department at 719-578-4578 to receive more information on the Phillips 66/USS Gold Medal Clinics.

"It puts swimming back into perspective. Sometimes you lose sight of what you're doing while training.

"It's a breath of fresh air to see these bright-eyed and bushy-tailed kids," he added. "We get great reaction from them. They're excited and eager and the feedback has been extremely positive. I have a totally new outlook when I finish a clinic."

Some hosts plan clinics around a scheduled team award ceremony or some other event in need of a guest speaker.

One clinician who has attended many such events is Craig Beardsley, former world record holder in the 200 meter butterfly, who has been involved in GMCs for several years. "We do it from the heart," he said. "We do it because we love the sport. It's important in my life. Every time I give a clinic, I learn something new."

"Gold Medal Clinics have kept me involved with the sport," he added. "When you have spent five hours a day training, you can't just quit. It's a nice change from the real world and the job and to do something different . . . something you love."

Phillips Petroleum Foundation President R.W. Peters, Jr., said, "The Gold Medal Clinics have enabled thousands of swimmers, coaches and parents to observe and learn from the great U.S. Swimming stars."

"This unique and personal experience is challenging and inspirational to our young athletes. Phillips is proud to support U.S. Swimming in continuing the tradition of excellence with the Gold Medal Clinics."

U.S. SWIMMING TESTS NEGATIVE

A recent USOC report shows that swimming did not have one positive result in drug testing in 1990. These tests include the U.S. Olympic Festival and the Goodwill Games. In all, 411 swimmers were tested negative for drugs.

"We are proud of our swimmers," said USS Executive Director Ray Essick. "This report demonstrates that our efforts to keep U.S. Swimming drug-free is working. This information gives us the impetus to continue our programs of testing and education to insure that no athlete is given an unfair advantage in competition."

Partial credit in this area is due to the USS National Team Honor Code, signed by all U.S. national team members.

HUGHEY INVOLVED IN PERSIAN GULF CRISIS

Rich Hughey, a former U.S. Swimming national team member, is in Saudi Arabia as part of the United Nations multinational coalition. He swam at the 1983 Pan Am Games, 1983 Sports Festival and 1984 Olympic Trials.

Hughey flies an F-14 for the Navy and is stationed aboard the USS America. All fighter pilots have a code name; Hughey's is "Speedo."

Rich would appreciate hearing from the States, especially from the U.S. Swimming family. To reach him, write: Lt. Richard Hughey, USN, VF33-Starfighters, FPO New York, NY 09504-6107.

If you know of any other former USS national team members involved in this crisis, please contact United States Swimming headquarters.

BARZDUKAS RESIGNS FROM USS ICAR

Sports Science Coordinator Audrius Barzdukas left the International Center for Aquatic Research (ICAR) Feb. 28.

"It's been tremendously rewarding to work with a group of people as dedicated and motivated as the USS and ICAR staffs," he said. "It's an experience I will always treasure."

Barzdukas was responsible for coordinating, administering and interpreting data for all Select Camp, club and national team testing conducted at ICAR.

He specialized in psychological research at the flume, presenting data at many international scientific congresses.

Barzdukas, who is moving to New York City and getting married in May, will be serving USS as a volunteer beginning with this year's USAS Convention.

"Audrius contributed much to the success of ICAR, both as a scientist and as a friend, and he will be missed," said Dr. John Troup, USS Sports Medicine Director.

SPITZ IN THE NEWS

Olympic legend Mark Spitz, who is on the comeback trail, can be seen in an ad along with pole vaulter Bob Seagren and marathon runner Frank Shorter for a hair care product.

They got together for a nationwide promotion for Clairol Option, a men's hair color. The promotion is a contest to find out who can guess which of the 40-year-old Olympians is covering his gray hair. The winner will earn a trip to Barcelona for the 1992 Games. ∞



CHAMPIONSHIPS

WORLD

By Russ
Ewald



PERTH, Australia—Because of the windy conditions of this city of 1.1 million isolated on the West Coast, it's Fremantle port served as an ideal host for the America's Cup four years ago.

On the other hand, the "Fremantle Doctor"—as the cool breeze is called—caused much concern of coaches and competitors alike prior to the 6th World Swimming Championships Jan. 3-13 at Perth's modern Superdome outdoor pool.

"As cool as it's been and with the wind, it will affect the performances," predicted U.S. national team director Dennis Pursley. "Personally, I think all championships should be held indoors for optimum conditions because of the tremendous investment of time of the athletes and money of the governing bodies. Otherwise, the city and facility are near the top of the list in every respect compared to previous championships."

Matt Biondi, the USA's 7-time Olympic medalist in 1988, took the philosophical approach of "It's the same for everybody," adding, though, "The smoother the surface of the water, the better off you'll be (in your performances)."

In workouts, the backstrokers were having difficulty accurately judging their turns because wind gusts blew the backstroke flags as much as a half a meter out of normal alignment.

Hotter weather during the meet with temperatures ranging from the high 70s to high 90s in the daytime cut down the wind. And the condition of five male swimmers proved to be more significant than the weather conditions. They set a total of six world records, making this the fastest men's competition at the championships since the inaugural in Belgrade where eight marks fell in 1973:

- Hungary's Tamas Darnyi earned the Politika Prize as the meet's outstanding

swimmer with records in both individual medleys, becoming the first to break two minutes for 200 meters (1:59.36) and smashing his 400 standard by 2.39 seconds (4:12.36).

- Germany's Jorg Hoffman, formerly of the GDR, shattered the oldest men's record in the books when he bettered the eight-year-old 1500 mark of legendary Soviet swimmer Vladimir Salnikov by more than three seconds with a time of 14:50.36. Seventeen-year-old Australian Kieren Perkins also bested the old mark in pushing Hoffman to the record.

- Mike Barrowman lowered the 200 breaststroke record for a fourth time down to 2:11.23 to beat the fastest field ever in that event.

- Melvin Stewart and Hungary's unheralded Norbert Rozsa not only conquered Olympic gold medalists Michael Gross of West Germany and Great Britain's Adrian Moorhouse in the 200 fly and 100 breast, respectively, but topped their world marks with times of 1:55.69 and 1:01.45.

There were no women's records. Some ex-East German swimmers and sports physicians have recently admitted the use of steroids in that country's national program, casting doubt on the legitimacy of 10 global marks set by GDR competitors. It should be noted, therefore, that the U.S. women's relay victories in the 400 freestyle (3:43.26) and 400 medley (4:06.51) would be records if the current German investigation voids the GDR marks, the only such cases at the meet.

The United States, capitalizing on the collapse of the East German program, once again became the leading team in the

world based on the medal count. The Americans finished with 13 gold, seven silver and three bronze—the first time they've led in gold and total medals since 1978 at any non-boycotted world meet.

Goggleless Rozsa of Hungary emerged from anonymity the opening day by equalling the 100 breast record in a heat and bettering it on the opening night.

Newly-unified Germany was next in overall medals with 20—four gold, nine silver and seven bronze. The East German women contributed to just one gold, the 800 free relay, and only because the U.S. team was disqualified.

Because of its depth, the U.S. team has always finished on top in the points standings where the scoring goes 16 deep. Overall, it had 800 to runner-up Germany's 713. The American women, though, scored their first victory at the championships in 13 years, coming from behind the final day to edge the Germans, 390 to 374, after an opening-day 800 free relay disqualification cost them 36 points.

For Pursley, the U.S. team met a bigger objective than winning the medal and scoring races. Eight swimmers got gold in the individual events compared to just Biondi and Janet Evans at the Olympics.

"It's an important step we needed to take, so our team didn't feel it was just two superstars that can win," said Pursley. "That, I feel, was my biggest accomplishment."

Besides the world records and two women's relays, Nicole Haislett in her 100 free win and Eric Namesnik's runner-up time in the 400 IM established American records. Leigh Ann Fetter equalled her U.S. mark in the 50.

The American team, however, was not without its disappointments. U.S. swimmers failed to medal in six men's and three women's events. There were only seven personal-best times and two others equalled.

"The biggest obstacle we had to overcome was the timing of the meet," said Pursley, referring to the championships being held during the winter for the first time (although it was summer in Australia). "I think it hurt more than we hoped."

"What we learned in this meet is that when the team is picked for the Olympics, the swimmers need to get into serious training immediately."

Pursley realized his team's success benefited from the collapse of the East German program, stating, "Everyone is now on an equal playing field."





Haislett became the first U.S. woman to win the 100 at these championships.

China has been the latest target of allegations of drug use. On the eve of the championships, Canadian Coach Dave Johnson declared, "Whether or not the standard was attained by hard work or drug-induced, we've got to find out. We've got to be more aggressive. For 15 years, we all knew something had to be going on for the East Germans to be swimming the times they did, but nothing was done."

The Chinese team held a news conference the final day of the meet during which Liu Ji, head of the delegation, and head swimming coach Chen Yaunpeng denied the accusations. Chen conceded that China learned from the advanced East German program through a coaching exchange with that country in 1986. East Germany's Rudolph Klaus came to China, which sent a volleyball coach in return. Chen added, though, that it's unfair to think "if anyone received help from the GDR (East Germany) and made progress, that means they took drugs."

The Chinese women won six medals, including four gold to tie the U.S. team for the most in the women's competition. However, almost all of their times were slower than last September at the Asian Games.

Australia and Hungary tied for third in the medal count. Hungary was second in gold medals with five.

"The Hungarians, along with the Chinese, have the type of social control by the government to make their performances possible," said Pursley.

A total of 1,241 athletes from 60 countries participated in the five sports at the championships, FINA (the International Amateur Swimming Federation) reported. There were 897 journalists, photographers and TV and radio announcers. Attendance was estimated at 80,000 with the last four nights of the swimming and the synchronized swimming team final sold out. Swimming interest was bolstered by the strong performance of the host country's Hayley Lewis and surprising success of teammate Linley Frame, along with the anticipation of sub-15 minute swimmers Perkins and Glen Housman in the 1500. Seating capacity for the 10-lane, two-meter deep pool was 6,000.

At the FINA meeting held in conjunction with the championships, Rome won the bid for the 1996 championships over Athens and Bonn.

First Day

January 7, 1991

**W 100 Free
M 100 Breast
W 400 IM
M 200 Free
W 800 FR**

Nicole Haislett experienced the thrill of victory and the agony of defeat in one evening.

In the opening medal event of the championships, the 18-year-old American overtook France's Catherine Plewinski in the final stages to the 100 meter freestyle in an American-record 55.17. The old U.S. mark was 55.30 set by Dara Torres on a relay leadoff at the 1988 U.S. indoor nationals. Plewinski, who held on for second in 55.31, went out in a blistering 26.22 the opening lap, 27-hundredths of a second under the split of Kristin Otto when the East German established the world record of 54.79. China's Zhuang Yong, top-ranked in 1990 at 55.12, turned second but never threatened and finished third in 55.65.

After Plewinski split (26.41) a full second faster than Haislett in qualifying first in 55.61 out of the heats, Haislett's strategy in the final was not to let her get so far ahead. "I think I won the race just before the turn," said Haislett, a Florida freshman. "She was so far ahead I knew I had to do something. I sped up and had a good turn. I started kicking 100 percent. It was a surprise to me. I didn't think I could go that fast."

The young American's victory was the first-ever in the 100 by a non-East German at the championships and ended that region's unbeaten streak in Olympic, World or European meets in the event at 15. She had also beaten the East Germans at last summer's Goodwill meet.

Haislett appeared to have capped a superb night when she helped the 800 relay team finish first in the final event. Leadoff Whitney Hedgepeth (2:00.37) put the Americans ahead and Haislett maintained it (2:00.67). After Trina Radke (2:01.25) was passed by Germany's Dagmar Hase (2:00.36), U.S. anchor Janet Evans made up the body-length margin and touched almost a second ahead in 8:01.63. A couple of minutes later, though, it was announced the U.S. team was disqualified because Haislett left 7-hundredths of a second too soon. The Germans moved up to first with their 8:02.56.

"The whole time I was swimming I thought I had broken," admitted Haislett, who, coming from a small club in St. Petersburg, Fla., has little relay experience. "Obviously, I did.

"Usually, my relay exchanges are terrible. It's something I've been afraid of. I was real pumped-up after my 100 win."

Norbert Rozsa of Hungary got the championships off to a roaring start in a 100 breast heat when he equalled the world record. An astonished Adrian Moorhouse of Great Britain, the record holder who chased Rozsa from the next lane and finished in 1:01.88, pointed out to his rival after the race that this was the third time his mark had been tied in the last year.



The Europeans swept the 200 with, from left, Poland's Wojdat third, Lamberti from Italy first and Zesner of Germany second.

races the top seed was beaten. Gjertsen found out the strong European contingent meant business in the final. Sweden's Anders Holmertz darted out under the world record splits in 25.11 and 52.28

with record holder Giorgio Lamberti on his shoulder. Holmertz paid for that pace, allowing Lamberti to pass him on the third lap. No one challenged the fleet Italian, although Lamberti's winning

The WARMER parka by WARM WIND **Keeps you TOASTY WARM AND DRY**



- **SPACE AGE LINING*** -
 - Traps your body heat
 - "Wicks" water away
 - Dries your body quickly
 - Sheds water
- Wear it
OVER YOUR WET SUIT
- Protects you from the wind
- Vibrant colors
- Lightweight
- Lined pockets & hood
- **VELCRO®**-closure cuffs
- Machine washable
- Made in USA

* - The acrylic fibers, used in some parkas, absorb the water like a sponge and become heavy, water logged, and cold. Our lining sheds water rather than holding it. **Accept no substitutes!**

WARM WIND performance active wear!
For more information, call (800) 288-WARM (9276)
Dealer inquiries invited

time of 1:47.26 was 58-hundredths off his standard.

Lamberti, 21, didn't feel he was fit enough for a world record. His training was hampered by an injured back when he helped a friend push a car. He only felt good a week before the championships after receiving treatment from his friend and physiotherapist Massiliano Platania, who practices Chinese manipulation.

"This is the biggest swimming event in the world so to me it feels better than the world record," said Lamberti. "It is the best thing in my career."

Gjertsen got caught off guard by the sizzling start and became discouraged when he couldn't close the margin, ending up last in 1:50.54.

"If it wasn't obvious, I made a big mental mistake," he said. "I wasn't expecting them to take off. I tried to change my stroke and rushed everything. I learned my lesson—go as easy as possible to make it in (to the final)."

After the disastrous first day for the U.S. squad, Pursley commented, "It's going to test the character of the team."

Moorhouse did it himself twice after setting the record at the 1989 Europeans.

Rozsa, 18, swimming in his first major international meet, said he was surprised but not shocked because he swam a 1:01.94 untapered in Budapest the previous month. Since that time was not listed in the world rankings, the performance stunned everyone outside of Hungary. The breaststroker's listed best was only 1:02.93 from July. In 1989, he ranked just 109th at 1:05.28.

In the final, the Soviet Union's Dimitriy Volkov charged out to the lead and turned in front in 28.70. Rozsa followed at 28.87, 13-hundredths slower than in the morning. Moorhouse staged his patented late rally, and the trio looked even with 10 meters to go. The newcomer then burst away from the veterans to win in 1:01.45 to gain sole possession of the world mark.

"I would have been disappointed to have won the gold medal in the time I swam tonight."

—Adrian Moorhouse

Moorhouse took second (1:01.58) with Italy's Gianni Minervini, the former UCLA swimmer, passing Volkov for third (1:01.74).

"I paced myself and on the way back I gave it all I had," said Rozsa. "I didn't know I had it until it was over."

Moorhouse, 26, again missed the only major title he hadn't won. The 1988 Olympic gold medalist and three-time European champion finished first at Madrid in 1986 but was disqualified for an illegal kick off the wall.

"I would have been disappointed to have won the gold medal in the time I swam tonight," said Moorhouse, whose preparation was slowed by a virus in November. "At the end, I didn't have it."

The women's 400 individual medley featured a rematch between Evans and Summer Sanders, who upset the Olympic gold medalist at the Goodwill Games. However, China's Lin Li, a third 4:39 IMer last year, and Commonwealth star Hayley Lewis of Australia stole the show.

Sanders looked impressive during the heats, qualifying in 4:43.80 for nearly a two-second gap over the field. In the final, Sanders took the lead from Lewis on backstroke and held it through breaststroke, a meter ahead of Lin. Halfway through the final lap, the Chinese swimmer powered past the struggling American. With the loud home crowd urging her on, Lewis made a late charge to touch almost simultaneously with Lin. The scoreboard showed Lin the victor by a hundredth in 4:41.45. Sanders wound up third in 4:43.41. Evans, who moved into contention on backstroke, faltered on breast and finished fourth in 4:46.05.

"I felt I was swimming slow in the first 200 meters so I knew I had to pick up the pace in the last half," said Lin, 20, who was the leading medalist last September in the Asian Games. "I could see Summer Sanders ahead of me, but I felt I could catch her."

Asked about the slow winning time, Lin responded, "I was not in top form because there was too little time to prepare after the Asian Games."

On drug-taking allegations leveled at her team, she answered, "It doesn't matter what they say. I don't feel anything about it."

Lewis, 16, a five-time gold medalist at the Commonwealth Games a year ago, said, "It was a bad touch by me. I knew I hadn't won."

Sanders wasn't sure if nerves got to her. "Going out in the fly wasn't as smooth." Then, on freestyle, she said, "I've never hit a wall so hard as today."

Evans has now been beaten three straight in the 400 IM. "I felt good until (the breaststroke)," she said. "My freestyle hurt really bad."

Probably no one felt worse about the American pair's performance than Richard Quick, head of the U.S. women's team and coach of Sanders and Evans at Stanford. Quick analyzed: "I think maybe Summer is a bit young at this level. She came into this meet carrying the pressure of being the favorite. Janet's obviously struggling with her breaststroke. She has been for awhile. She is a little taller and bigger and her technique needs to improve. It takes long to get it down."

Doug Gjertsen was a surprise top qualifier in the 200 free at 1:48.58, over a half-second ahead of the field. But lane four was not the place to be on the opening day. In four out of five



While China's Lin (left) beat Sanders in both IMs, the American later swam the fastest 200 butterfly since 1987.

Second Day

January 8, 1991

M 100 Fly
W 200 Free
M 400 IM
W 200 Breast
M 800 FR

It didn't get any better for the Americans the second day. The U.S. team didn't get any gold despite sending out its Olympic stars, Biondi and Evans.

Biondi was looking forward to another 100 fly clash with Surinam's Anthony Nesty, who beat him by a hundredth of a second at the Olympics and more decisively last summer at the Goodwill. The 6-foot-7 American turned second in the final behind Germany's Michael Gross (24.74) but never mounted a challenge going home. Nesty caught Gross with five meters to go and nipped him at the wall, 53.29 to 53.31. Biondi was sixth in 53.97, the first time ever he swam an international event without getting a medal.

"I gave it my best shot," said Biondi. "I know I'm not going to beat anybody from behind. I had a good 85 meters. Unfortunately, there was 15 to go."

That last stretch is where Nesty is strongest. "I saw Michael out of the corner of my eye, so I kicked in and tried to stretch out my stroke," he said.

For Gross, it was his second-fastest 100 fly ever and his best since winning at the 1984 Olympics in 53.08.

Evans looked to have a good opportunity to win in a wide-open 200 free contest, although she was swimming the event for the first time in international competition. She and teammate Haislett qualified 1-2. After Romania's Luminita Dobrescu set the pace the opening half, Australia's Lewis from lane eight and Evans battled neck-and-neck the rest of the way. Just as the previous evening, the host country darling in contention brought the crowd into a frenzy. Having too much speed for the distance-oriented Evans, Lewis edged the American, 2:00.48 to 2:00.67.

After the race, Lewis revealed she nearly scratched from the event following the heats where she was the last qualifier. "I was going to save myself for the 400 tomorrow," she said. But Australian head coach Don Talbot and Lewis' personal coach, 79-year-old Joe King, persuaded her to sleep on it for the afternoon. She felt better after the rest and "gave it a go."

"I was having a lot of fun when I went out there," she said about the race. "It wasn't my main event, so I wasn't keyed up."

"I could really hear the crowd the last 15 meters because I turned to breathe and I heard the cheers. Then I just put my head

down and went for it. I didn't know I had won the race because all the people were standing in front of the board."

Breathing toward the crowd and three lanes from Evans, she never saw the American the final lap.

Evans, who has grown to 5-foot-6 and 115 pounds compared to 5-4 and 108 in Seoul, didn't feel bad about placing second since she doesn't train for the 200. She said, "To train for the 200 would take away from the distances."

Haislett never contended and finished fourth in 2:01.13. "I didn't swim my own race," she said. "I let Janet and Hayley take control. Usually I go out in 58-low (she split 59.76). Maybe it was because of the day before. I wasn't aggressive enough."

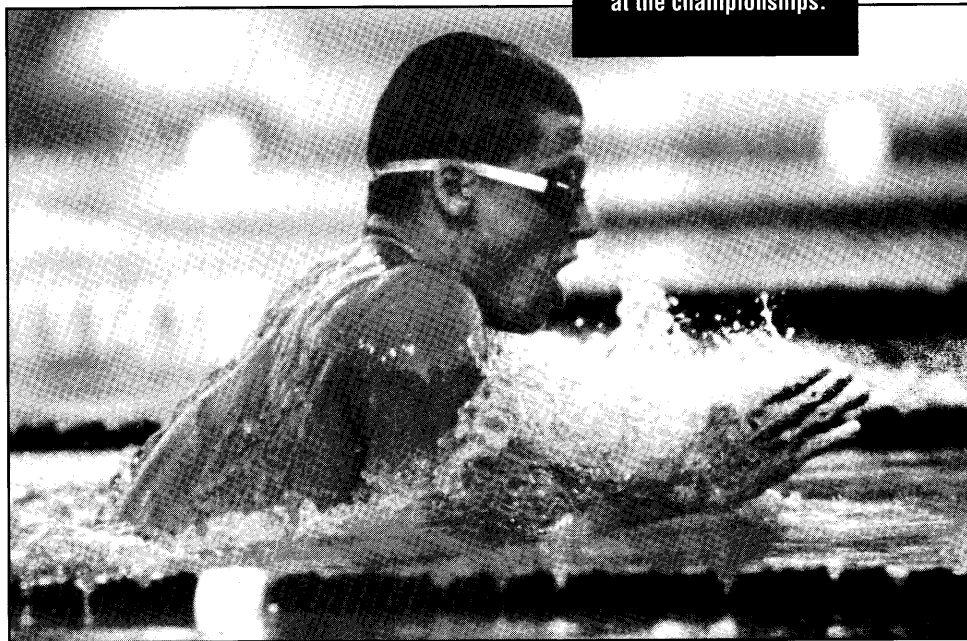
Eric Namesnik became the second American to set a national record, but it wasn't nearly good enough to win the 400 IM. That defending champion Tamas Darnyi of Hungary won wasn't a surprise because he's unbeaten in the event since his first international competition in 1985. But he astonished the crowd by also clipping 2.39 seconds off his world record down to 4:12.36, highlighted by a sensational 57.64 freestyle. Namesnik was a distant second in 4:15.21, bettering his own U.S. mark of 4:15.57 set at last year's nationals.

"If it wasn't so windy and cold, I think I would have swum one or one-and-a-half seconds faster—not only me but all the swimmers," disclosed Darnyi, 23.

While there is little suspense to the outcome of Darnyi's races, Elena Volkova provides a lot of excitement in the 200 breast with her come-from-behind style. The tall 22-year-old from the Soviet Union qualified only seventh and stood just sixth with a lap to go in the final.

But a furious rush the final 50 gave Volkova the victory in 2:29.53, disappointing the crowd which became aroused when its own Linley Frame took the lead early in the last lap.

Darnyi became the first swimmer since 1978 to set world records in two events at the championships.



Frame held on for second in 2:30.02.

Volkova didn't mind being in lane one. "I don't like to be in the center where people are paying attention to me," she said. "I always concentrate more in the final. I put more pressure on myself. I was very sure I would win."

The women's 200 breast was the only event where no American made the final. "We're a little disappointed that we don't have anyone in the final because the field is not that fast," said Quick after the prelims. "Our girls' goal was to get into the final, and if they had equalled their best times they would be in."

More disappointment came in the men's 800 free relay. The Americans, who have won this race in their last six Olympic appearances, lost for the second successive time at these championships. It wasn't a surprise since past U.S. anchor Biondi, the team's ace in the hole, wasn't on the relay, and Germany could pick its squad from the best of the silver (East Germany) and bronze (West) medalists in Seoul.

Troy Dalbey and Gjertsen, members of the Olympic gold medal relay, performed well. Dalbey got the team in front with a 1:48.69 leadoff. But Steffen Zesner, the 200 free silver medalist, ripped off a 1:48.18 leg to put the Germans ahead for good. With Gross, the 1984 Olympic 200 free champ, given almost a one-second lead, the race was over. The German "Albatross" brought the team home to an easy 7:13.50 victory, 99-hundredths off the world record held by the 1988 U.S. team. Gross and 200 free titlist Lamberti, who moved his Italian squad up to third, each split 1:46.86, tied for sixth-fastest ever. Gjertsen had the next best at 1:47.35.

"I was surprised we were leading going into the last leg," said Gross, 26, who announced months ago that he would retire after the championships. "We thought the Americans would be leading by a half-second. It's fantastic to be the world champion after losing this relay by 4-hundredths in 1984 and 5-hundredths in '86."

Third Day

January 9, 1991

W 400 Free
M 100 Free
W 100 Back
M 200 Back
W 400 FR

Interest in the championships picked up this day with the first sellout crowd. The Australians wanted to see their Hayley, fresh from a gold in the 200 free and silver in the 400 IM, duel Olympic champion and world record holder Evans in the 400 free.

Egerszegi put an end to a couple of patterns. Until her backstroke wins, the Hungarian titlists had all been men; she won at a stroke ruled by tall girls.



While Evans has proved beatable in other events, she's never lost in the 400 since moving to the top in 1987. Lewis was the leading seed out of the heats, not necessarily a good omen in this meet. In the final, Evans raced to the front immediately. Lewis hung close for the opening half. Despite having the crowd behind her, the Aussie couldn't keep up with the American dynamo. Evans won by two meters in 4:08.63. She hadn't gone that slow tapered since her last trip to Australia at the 1987 Pan Pacific meet.

"For many of us, it's not the normal season," said Evans. "I thought the times would be faster. It really doesn't matter to me. My dad always says to me that in 10 years they will know nothing about the time. It is the world championship that matters.

"I was happy to get this race over. This and the 800 are my races. It's been a long three days, especially after the 400 IM and relay."

Lewis said she couldn't get to sleep for a long while after her victory in the 200 free. She couldn't remember much about the 400 free except that "Janet was in front. I tried to catch up to her, but she was just too fast."

Japan's Suzu Chiba, just 15, placed third in 4:11.44, a tremendous drop from her 4:20.93 for the bronze at the Asian Games.

Biondi, who in the 100 free has even a longer winning streak than Evans in the 400, gave the U.S. team back-to-back victories with a 49.18 win in his specialty. Like Evans, he didn't need to be near his world-record form (48.42) of 1988 to take the field. The Olympic gold medalist was in front all the

continued on page 26

Behind The Hungarian Success

After four decades as a coach, Tamas Szechy has learned not to leave the slightest detail to chance. He brought his Hungarian national swimming team to Perth four times in order to acclimate them for the World Championships, including twice the past year for three-week training sessions. During his stays in Perth, Szechy scouted the city for a comfortable hotel (knowing the climate would be hot for the championships) with very good food and close to the competition pool. He found the deluxe Observation City hotel on the beachfront. No matter that the normal rate is \$170 a night. It was only 8 to 10 minutes from the pool. He timed the ride beforehand, noting there was only one stoplight the entire drive. For the championships, he rented a van and two cars for transport, rather than rely on a shuttle bus. Prior to traveling to Perth, the team trained for two weeks at Szombetheely in neighboring Austria which had a good indoor pool and nice accommodations.

Such careful planning helped the Hungarians set the most world records (3) at the championships and capture five gold, two silver and one bronze medal despite

bringing just 11 swimmers. Although this is the most success the Hungarians have enjoyed, they collected three gold medals twice in the past with Andras Hargitay (IMs) and Zoltan Verraszto (200 back) in 1975 and Tamas Darnyi (IMs) and Jozsef Szabo (200 breast) in 1986.

"We have a big tradition in sport," relates Szechy through an interpreter. "We have 122 gold medals at the Olympics, 13 from swimmers. The Hungarian people are talented. We have Nobel Prize winners, but they live in the United States. The people love sports. They learn to compete from the historical problems between regions."

Although Hungary is also suffering from a recession that has cut government support of sports, swimming has been spared because of its success, according to Peter Jerenyi, press chief for the Hungarian team. "The government will give money only to the best," he said, naming canoe/kayak, shooting, wrestling, modern pentathlon, fencing and water polo as the other privileged sports. Swimming is No. 1 among them. The swimming program also receives private financial support from George Zemleni, an American businessman who was born in Hungary.

The swimmers work long and hard to achieve their status. They have workouts from 6 to 10 a.m. and 4 to 7 p.m. weekdays and one training session each on Saturday and Sunday. In-between practices, they study with tutors and only take exams twice a year. Darnyi, the 23-



Darnyi

year-old star, is in the second of three years of high school (equivalent to a U.S. college) and is studying to become a hotel or restaurant manager. The motivation for the tough training regimen is a reward for World Championship or Olympic wins of 300,000 forints—which Jerenyi says is approximately \$5,000 U.S. but about a year's salary for a middle-level

worker in Hungary. And, of course, the national team members are given the amenities as in Perth during training and meets. The Hungarians can afford to spend more on their stars because, instead of taking a full team to championships, they bring only those they think can medal, along with maybe a couple of top prospects to get experience. The U.S. team had 43 swimmers compared to Hungary's 11.

Another factor where the nations differ is in emphasis of meets. The Hungarians use their nationals and any other meet besides the Olympics and World or European Championships as workouts. For example, at Hungary's nationals in early December, Darnyi and backstroke champion Krisztina Ererszegi both swam in 16 events, including relays. The Hungarians began pointing for Perth last June in their training. Darnyi swam at the Goodwill meet in July but unrested and only in the 200 fly.

Because the talent pool is so small, the Hungarian stars stay in the sport a long time. Also, Szechy annually leaves his Central Sports School in Budapest to visit small clubs throughout the country in search of prospects. He found Norbert Rozsa four years ago swimming at a country club 120 miles from the capital.

Szechy says he learned much from former University of Indiana coach James "Doc" Counsilman. "He's my master," the Hungarian coach stated. But the latest significant innovation in the sport came from Hungary. It's the "rolling" or "wave-action" breaststroke that Szabo used to win world and Olympic titles in the 200 breast, Rozsa to better the 100 breast record and Mike Barrowman to lower the 200 breast world record four times.

By Russ Ewald

way, although Sweden's Tommy Werner, a former teammate at the University of California, closed fast to finish only a meter behind in 49.63.

"I did everything I could to get ready (for the meet)," said Biondi, 25. "I trained the best I know how. Before the Goodwill, I felt I didn't rest enough, so I rested more. It's a hit-or-miss deal."

Krisztina Egerszegi is another who doesn't have to be at her best to win. An Olympic gold medalist in the 200 back and runner-up in the 100 back at age 14, the petite Hungarian was 24-hundredths under the 100 back world-record split (29.43) but may have gone out too quickly. She won in 1:01.78, which is 22-hundredths off her best. Teammate Tunde Szabo, also 16, gave Hungary the first sweep of the championships by taking second in 1:01.98, a personal best by 8-tenths.

"I hoped to go better after swimming fast in the heat," said Egerszegi, who qualified in 1:01.98. The youngest swimming champion in Seoul has grown from 5-foot-5 and 99 pounds to 5-7 and 119 since the Olympics.

Ever since the heyday of Rick Carey, the U.S. double gold medalist in the backs in 1984, the 200 back has been dominated by the Europeans. The continental swimmers continued their reign, taking the top five places led by Spain's Martin Zubero in 1:59.52. Of course, Zubero grew up in the United States and is a senior at Florida. He swam for Spain in the last Olympics, though, because he has dual citizenship due to his father being from Spain.

On a night where all the individual champions won in times slower than their personal bests, the U.S. women's 400 free relay broke that dubious string with a 3:43.26 victory for an American record. The old mark of 3:43.43 lasted a long time, shared by the 1978 World Championship team and the 1984 Olympic quartet. Haislett, who asked to lead off, put the Americans ahead to stay in 55.74. Anchor Jenny Thompson turned

in the fastest split (55.29) of the day for a two-meter margin of victory over runner-up Germany.

"I really wanted to go faster than in the individual event," said Haislett, who conceded part of the reason for going first was not to have to worry about jumping on an exchange. "I was too pumped-up, went too fast the opening 50 and paid for it the final lap. But I got the team off to a good lead."

Fourth Day

January 11, 1991

M 400 Free
W 100 Fly
M 200 Breast
W 100 Breast
M 400 FR

For Mike Barrowman, a lot of time and sacrifice came down to a little over two minutes in the Perth pool. The 22-year-old swimmer had bettered the world record in the 200 breast three times and been named World Swimmer of the Year by *Swimming World* in each of the last two years. But he didn't have a world title, having finished a disappointing fourth at the Olympics. To reach that goal, the University of Michigan senior took the fall semester off—the only U.S. swimmer to do so.

"It was absolutely necessary to try whatever the outcome," he said. "If I was in college, I would never have swum what I needed in workouts because of the class time required. I needed no distractions. I find it impossible to go into a championship half-kilter."

The 200 breast was loaded, probably the best field of the championships. Besides Barrowman, the event featured Hungarians Rozsa, the 100 breast record holder, and defending champion Jozsef Szabo, the Olympic titlist; Great Britain's Nick Gillingham, who equalled Barrowman's first world mark in winning the '89 Europeans; and Spain's Sergio Lopez, who

was under the old global standard when Barrowman set the record for a third time last July at the Goodwill. Kirk Stackle, who tied Lopez for second in that race, was a victim of the fine field, failing to make the final with only a tie for the ninth-fastest time in the heats.

After leading the qualifiers at a meet-record 2:13.82 in the morning, Barrowman felt the need for an energy boost and ate a couple of hamburgers and chips at a nearby fast-food restaurant. At night, he led wire-to-wire and lowered his record again to 2:11.23. He took the race out harder than in Seattle, turning for home 9-tenths ahead of the split for his old mark of 2:11.53. Rozsa sped the final 50 in 34.20 to take second in 2:12.03, a five-second drop. Gillingham placed third (2:13.12), Szabo fifth (2:13.93) and Lopez

Evans' 400 free got the U.S. team back on the winning track after the Americans had won just one gold medal in the opening two days of the championships.



World Championship Medal Totals

	Women	Men	Combined						
			Swimming	Diving	Synchro	Water Polo	Long Distance	Total	Medals
USA	6-3-3	7-4-0	13-7-3	1-2-1	2-1-0	0-0-1	2-2-1	18-11-6	35
GER	1-4-4	3-5-3	4-9-7	0-0-2	-	-	-	4-9-9	23
CHN	4-1-1	-	4-1-1	4-2-1	-	-	-	8-3-2	13
AUS	2-4-1	0-1-0	2-5-0	-	-	-	1-1-1	3-6-1	10
HUN	2-1-0	3-1-1	5-2-1	-	-	0-0-1	0-0-1	5-2-3	10
URS	1-0-1	0-1-4	1-1-5	0-2-1	-	-	-	1-3-6	10
ITA	-	1-1-4	1-1-4	-	-	-	0-1-0	1-2-4	7
JPN	0-1-1	-	0-1-1	-	-	-	-	0-2-3	5
CAN	-	0-1-0	0-1-0	-	0-1-2	0-1-0	-	1-3-1	5
HOL	0-1-1	-	0-1-1	1-0-0	1-1-1	1-0-0	-	2-1-1	4
ESP	-	1-0-1	1-0-1	-	-	0-1-0	-	1-1-1	3
FRA	0-1-2	-	0-1-2	-	-	-	-	0-1-2	3
DEN	0-2-0	-	0-2-0	-	-	-	-	0-2-0	2
GBR	-	0-1-1	0-1-1	-	-	-	-	0-1-1	2
POL	-	0-0-2	0-0-2	-	-	-	-	0-0-2	2
SUR	-	1-0-0	1-0-0	-	-	-	-	1-0-0	1
YUG	-	-	-	-	-	1-0-0	-	1-0-0	1
SWE	-	0-1-0	0-1-0	-	-	-	-	0-1-0	1
TCH	-	-	-	0-0-1	-	-	-	0-0-1	1

sixth (2:14.24) in the fastest 200 breast field in history.

"I am so happy it is over with," said Barrowman. "I've never felt so bad going into a race. My coach (Jozsef Nagy) kept telling me, 'Will power, will power, will power,' and believe me, that's all it was. There was nothing good about that race at all. I didn't care about a record. I just wanted the gold medal."

While the 200 breast lived up to expectations, the opening-event 400 free turned into a strategic race. An unprecedented three swimmers bettered the world mark at the Olympics, but

in 3:49.67.

Hoffman, 20, a former East German who trains with world record holder Dassler at Potsdam, only had a previous best of 3:50.19.

"I really came here to swim the 1500," he said. "I was surprised by the time, and I was even more surprised that it was me who swam it. I think the 1500 is easier for me because I have trained for that."

Wojdat, a junior at Iowa, felt lucky to get third. "To be honest, I was taken aback by the strong finish of the Germans,"

"I've never felt so bad going into a race. My coach kept telling me, 'Will power, will power, will power.'"
—Mike Barrowman

gold medalist Uwe Dassler from Potsdam didn't make the German team and runner-up Duncan Armstrong of Australia retired. That left Poland's Artur Wojdat, an ex-world record holder and top-ranked the past two years, as the favorite. Wojdat's devastating late kick never appeared, though. Instead, Germany's Jorg Hoffman took the lead from pacesetter Anders Holmertz after the first 100, surrendered it to Wojdat at the 300 mark and then came back to win by two meters over teammate Stefan Pfeiffer in 3:48.04. Wojdat managed to hold on for third

he said. "He (Hoffman) blew me away the last 50.

"For those who just swim and don't go to school, the timing of the meet—coming out of season in January for the Europeans and Americans—shouldn't have been a problem because there was a year-and-a-half to prepare. But for me and the U.S. swimmers in school, we didn't have the time to do it."

The Chinese swept the women's 100 butterfly as expected. But the times of winner Qian Hong (59.68) and runner-up Wang Xiahong (59.81) were disappointing after their sub-59

Breaststroke took the spotlight on the fourth day with Barrowman's world mark in the men's 200 (right) and the startling victory by late-bloomer Linley Frame in the women's 100 (below), delighting the Aussie spectators.

performances last October at the Asian Games.

"I am happy with the result because this is the first time that I have competed outdoors," said Qian, 19, who lost to her teammate, 58.87 to 58.89, in Beijing. "The weather and climate have a lot to do with it."

Qian also echoed the feelings of the other Chinese champion, Lin Li, that there was not much time to train after the Asian Games. "I think it takes time to go from one highlight to another," she said.

European champion Catherine Plewinski edged Chrissy Ahmann-Leighton for third in 59.88. Ahmann-Leighton, a junior at Arizona, became the first American in two years to break the one-minute barrier and the only U.S. swimmer other than Mary T. Meagher since 1986 with her time of 59.96.

While the crowd got excited with Barrowman's record performance, it was nothing like the cheering for the women's 100 breaststroke. Australian Linley Frame, who just missed in the 200 breast, took charge from the start of the 100 and remained in command to win by almost two meters in a Commonwealth-record 1:08.81. The 19-year-old from Melbourne, who now trains at the Australian Institute of Sport in Canberra, shaved 3.53 seconds off her previous best time.

"I just don't believe it," she exclaimed. "It's feels great. I hurt coming home, but it is such a buzz when you have the crowd behind you."

The U.S. men's 400 free relay remained undefeated in world and Olympic competition with a 3:17.15 victory. The team of Tom Jager (50.60), Brent Lang (48.77), Doug Gjertsen (49.51) and Matt Biondi (48.29) led throughout the race, beating runner-up Germany by 1.73 seconds. Biondi's split, a tie for sixth-fastest ever, gave him the top eight of all time.

Jager took the blame for the team not bettering the world record of 3:16.53. "The last three guys were on pace," he said.



Fifth Day

January 12, 1991

M 200 Fly

W 200 IM

M 50 Free

M 100 Back

W 400 MR

Melvin Stewart and Mike Barrowman have been buddies ever since they got together in Seoul and talked about their Olympic experience. "We agreed that it sucked," recalled Stewart. Both expected to collect medals at the Games. Neither did. Barrowman faded to fourth in the 200 breast and Stewart to fifth in the 200 fly. They vowed never to let that happen again.

The buddies became roommates in Perth. The previous night when Barrowman returned to the hotel after shattering his 200 breast record again, he challenged Stewart. "He told me that I would have to get out of the room if I didn't break the world record as I would be a loser," Stewart disclosed.

But Stewart, who finally got the American record last summer after a three-year pursuit, thought, "I just want to survive the race." After all, he was facing Michael Gross, unbeaten in the 200 fly in a major meet since 1984, the record holder at 1:56.24 and seeking an unprecedented third successive world title.

Gross, who likes to take the lead from the beginning and pour it on the third 50, set a blazing pace. He turned at 100 meters in 54.86, 6-tenths in front of his record split. Stewart hung close and even gained during the crucial third lap—splitting 26.34, 55.60 and 1:25.44—to pull to within a meter of





A Winning Combination

United States Swimming and our National Sponsors.



National Sponsor of Swimming
Since 1973

SPEEDO®



Official
Supplier of
Deck Apparel

TAMPAX®
Tampons

NUPRIN®
IBUPROFEN
Pain Relief Formula



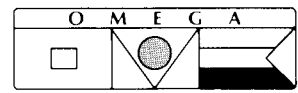
FUJI PHOTO FILM

Clear eyes®
eye drops



AQUA CHEM®
BALANCED FOR CLEAN POOLS

DARLEXX®
STRETCHES THE IMAGINATION



Murine® Ear Care



UNITED AIRLINES



Ultra Swim™

PHYSICIANS' CHOICE™
"EAR PUTTY"™ EAR PLUGS



The fabulous fifth day for America included a U.S. - record win in the women's medley relay by (clockwise, top left) Wagstaff, Haislett, Ahmann-Leighton and McFarlane and a sweep of the 50 by Jager and Biondi (with Prigoda, left).



the West German. The final lap the American forged ahead and increased his lead to win by two meters. His time of 1:55.69 shattered the world mark by 55-hundredths. Gross finished second in 1:56.78.

During the race, Stewart said, "I was watching Gross. Every time he turned, I thought, 'Oh, God. Here we go again.' I felt a wave of pain at the 100. I usually get it at 150."

But he followed his strategy to perfection. "My plan was to draft off Michael the first 100 and take him the last 50."

Gross, 26, who took a year off following the Olympics, announced months ago that he would retire after these championships.

"I'm not disappointed at the end of my career," he said. "I swam a 1:56 again.

the United States its first and only sweep of the championships. Approaching the wall, the sprint kings matched each other stroke for stroke. Jager's quicker arm action looked to be the difference as he touched in 22.16 to Biondi's 22.26. Gennadiy Prigoda of the Soviet Union took third, well back in 22.62.

"The start was quick," said Jager, 26, whose world record is 21.81. "We were all surprised we got off on the first start. The last 15 meters I was able to change gears. I took another breath (giving him a total of three). I was right on with my left arm. It's very unusual—usually I finish with my right arm. Maybe I took an extra stroke."

Biondi blamed his defeat on an awkward finish. "The timing of the strokes

but I looked around after the first 100 and I was out there by myself," said Evans. "I am happy with my swims for this time of the year. The 800 felt the best."

While the U.S. team could count on wins in the 50 and 800 with its proven performers, the men's 100 back was another story. Although Jeff Rouse was top-ranked the last two years and the second-fastest performer of all time at 54.79, the Stanford junior had no experience in world competition. He also tends to wander into lane lines, a problem exacerbated by the outdoor location of the championships.

Rouse survived these obstacles, barely, edging Canada's Mark Tewksbury, 55.23 to 55.29. The 6-foot-3 American used a strong kick off the wall to bolt to the

"I'm not disappointed at the end of my career. I swam a 1:56 again. I can't swim 1:55.5 today."

—Michael Gross

I can't swim 1:55.5 today. It's impossible. I just died the last 25. That's usual for me in a fast race."

With Stewart's win, the Americans had a chance at sweeping the night's finals. But Lin Li again proved too strong for Summer Sanders, who had qualified first in the 200 IM—more than two seconds faster than the Chinese swimmer. After Sanders led the opening two strokes, Lin inched past her during the breaststroke. They battled evenly until the final 10 meters when Lin's strong kick proved the difference by a meter-and-a-half. The winning time of 2:13.40 was 24-hundredths off Lin's Asian record set in September.

"Even though she was quicker during the heats, I still had confidence I might be able to win," said Lin, stockily-built at 5-foot-6 and 141 pounds. "I felt my strongest leg was breaststroke."

Sanders equalled her personal best of 2:14.06 in taking the silver medal. "It's a big improvement over my 400 IM. I was angry after the 400, but I knew I had to put it behind me and move on.

"My breaststroke could have been faster. I came back on freestyle. It was the first time I've ever done that."

The men's 50 has become a match race between Matt Biondi and Tom Jager. They outclassed the field again and gave

was off," he said. "My start wasn't as good as it could have been, either. I am not sure if I'd done it right if I would have beaten him, anyway."

Janet Evans didn't have to worry about her start or finish. She routed the 800 field by 11 meters in a time of 8:24.05. Evans was far off her world record (8:16.22) and has swum the distance faster six times. But the win was sweet since she was upset on her last trip to Australia by the host country's Julie McDonald at the 1987 Pan Pacific meet. Germans Grit Mueller and Jana Henke, both formerly of East Germany, placed second and third in 8:30.20 and 8:30.31, respectively. McDonald finished far back in seventh.

"I thought it was going to be closer.

lead. He covered the first lap in a swift 25.98, faster than in his sub-55 race. A better turn by Tewksbury pulled the Canadian into a virtual tie with Rouse, who hugged the lane line next to his rival in the final stages.

"I just wanted to get out as fast as I could and put it away at the beginning," said Rouse. "I had a little trouble with the lane line. In the last 50, I could see splashes from Mark and knew he was catching me. My legs were hurting a lot. It was the hardest race I have ever done.

"I thought I had lost. I was trying to see the scoreboard and couldn't see it for about 10 seconds—which seemed like an hour—because everyone was standing in front of it."

The Americans ended with a U.S. record in the women's medley relay for

CALL FOR FREE FUND RAISING INFORMATION
TOLL FREE 1-800-338-0231 **515-279-4136**

SWIM MEET CONCESSION PROGRAMS

Discover how amazingly simple fund raising can be with **ACTION ACCENTS**

★ CONSIGNMENT PACKAGES ★

Products shipped anywhere in the continental U.S.

★ DIRECT SALES PROGRAM ★

No fuss, no bother, no work for your organization.

LOOK TO ACTION ACCENTS FOR ALL OF YOUR SWIMMING NEEDS.

CALL TODAY FOR COMPLETE DETAILS

ASK ABOUT TEAM SUITS AND ACCESSORIES

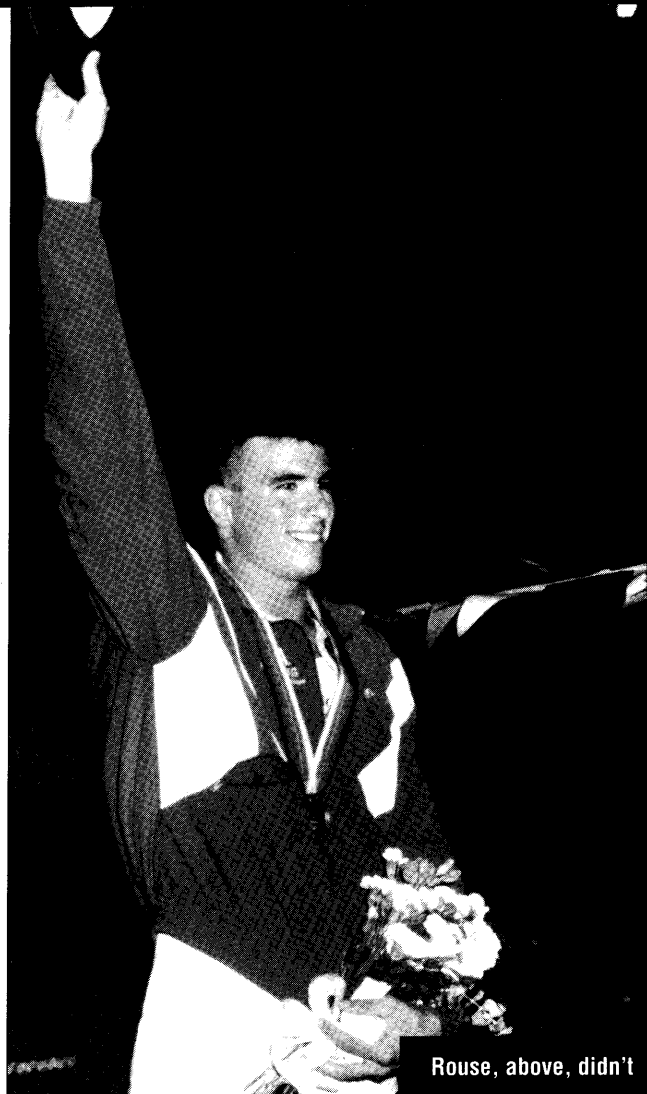
FREE CATALOGS AVAILABLE

SPEEDO®



906 - 42nd Street

Des Moines, IA 50312



their fifth victory of the night. They were pushed by the Australians. Janie Wagstaff put the U.S. team two meters in front with a personal-best 1:01.82—moving her up to No. 2 on the all-time U.S. list. But Linley Frame brought the crowd to its feet with a sizzling 1:08.43 breast leg (eighth fastest in history), giving the Aussies a slight lead despite Tracey McFarlane's 1:09.66 which

is the fastest-ever by an American. The screaming crowd lifted flyer Susan O'Neill to a 59.61 leg against Crissy Ahmann-Leighton (1:00.27), increasing the advantage to a meter. But no amount of noise the final leg could help Aussie anchor Karen van Wirdum against the explosive Haislett, who gave the U.S. quartet the win by over two meters in 4:06.51.

The old American record was 4:06.94, held by the 1990 U.S. Goodwill squad. Haislett became the first American ever to record a 100 free split under 55 with a 54.76 split, sixth-fastest on the all-time world list.

Ahmann-Leighton remarked, "It seemed like the whole crowd was against us. I thought I was going to fall off the blocks. I tried to use it for me, that they were yelling for us."

Rouse, above, didn't need to swim near his best time for a victory in the 100 back, but Germany's Hoffman, below, cut 11 seconds off his PR to edge Aussie Perkins in the record 1500 race.

retiring. "I was nervous because I didn't do well yesterday," said the former Texas swimmer, who was sixth in the 100 breast. "It seemed like I didn't rest enough (for the meet) because I died halfway through the final lap then. Today, I went smooth the first 50. It worked better because I went a second faster."

China, expected to challenge the Americans in the medley relay, scratched from the final. "Because we did not have many swimmers, we wanted to rest those here for the individual events," said Chinese head coach Chen Yaunpeng.

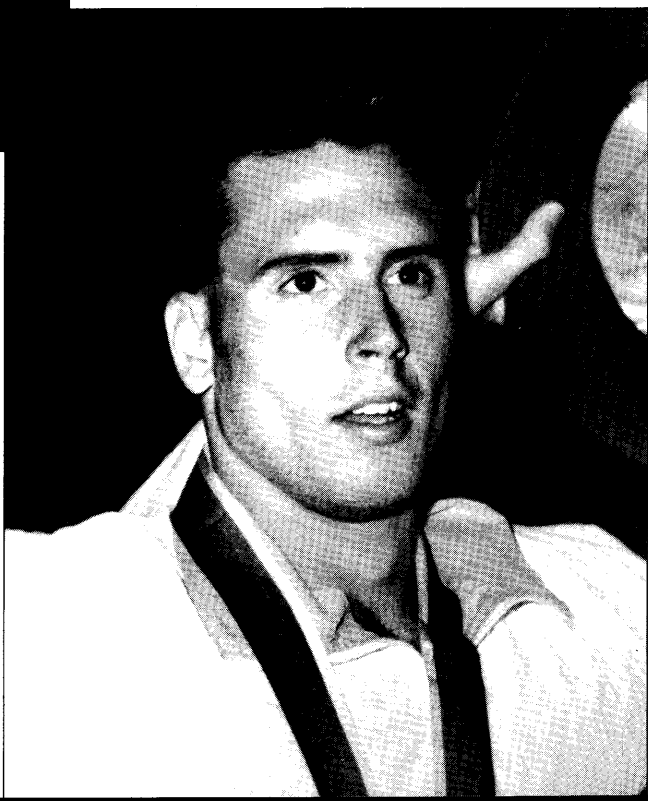
Another factor could have been the illness of Huang Xiaomin, the top-ranked 100 breaststroker for 1990. She scratched from the 200 breast to rest for the 100 and then placed only 24th in the prelims of that event.

Sixth Day

January 13, 1991

**W 200 Fly
M 200 IM
W 50 Free
M 1500 Free
W 200 Back
M 400 MR**

The sixth World Championships concluded in spectacular fashion with two world records the final night. In the 1500, three swimmers went under 15 minutes, led by Jorg Hoffman's record effort. Tamas Darnyi became the only swimmer to crack two global marks at the meet, breaking the two-minute



barrier in the 200 IM. Hoffman and Darnyi also became the only double individual winners of the men's competition.

The Perth *West Australian* newspaper reported the opening day of the championships that Hoffman purposely collided heavily with Perkins during an Australian workout when Germany was not supposed to be using the pool. Hoffman denied the charge at a media conference after his 400 free victory. But a U.S. swimmer reported that the German was heckling Perkins and Aussie teammate Glen Housman in the ready area prior to the 1500.

When they finally raced, Hoffman and Perkins staged a sensational duel. Perkins was the early leader. Hoffman took over at the 500 meter mark. But they were never more than 1.01 seconds apart at any of the 100-meters splits. With Perkins cranking out a 56.52 opening 100, both swimmers were easily under Salnikov's record pace throughout the 1500 meters. Hoffman needed a 57.45 finishing 100 to withstand the challenge of the young Australian, enabling the German to touch in 14:50.36 and smash the world mark by 4.4 seconds. Perkins, who had the crowd on its feet for much of the race, lost by only 22-hundredths.

Housman, the other Australian who figured in the hunt off his Commonwealth win in 14:55.25 and earlier unofficial 14:53.59, was never a factor and finished fifth in 15:12.42.

"I knew I could swim this time because that is what I trained for," said Hoffman. "All I needed was someone like Perkins to push me along. I was surprised he could go the last 50 so fast. I think it was the home crowd."

Perkins said, "I couldn't see the crowd because of the lights. Every now and then, I heard a roar, though."

His coach, John Carew, thought Perkins lost the race at the turns. "Being only 17, he can improve a lot, if he keeps his keenness," the coach said.

Darnyi was keen to get his 200 IM record back after losing it to Dave Wharton, who went 2:00.11 at the 1989 Pan Pacific meet. Without being pushed, Darnyi may have put the record out of reach in recording a 1:59.36. At least, the reach of others. He said, "I think I'll be able to get under 1:59." The Hungarian great said he has never been beaten in the



AT YOUR SERVICE

Some of the finest U.S. coaches as well as 1984 Olympic team members to instruct you in their specialties

Don Gambril's Gold Medal Series

Each tape in the GOLD MEDAL SERIES provides Olympic highlights, winning techniques, training and motivation by Coach Don Gambril and the top U.S. Olympic swimmers in each event. Using underwater, slow-motion and freeze-frame photography, they offer extensive instruction to help the beginner, as well as the serious competitor, improve his performance. **\$72.45 each.**

FREESTYLE—Rowdy Gaines gives insight into his "classic" freestyle form. Includes actual footage of Rowdy's 1984 gold medal win. Covers starts, turns and the importance of executing them correctly.

BREASTSTROKE—Coach Gambril and Steve Lundquist discuss the history and evolution of this stroke. Demonstrations of proper body position, timing and mechanics by the U.S. gold medalists.

BUTTERFLY—Race footage of the top stars, World Record Holder Mary T. Meagher and Pablo Morales, with an analysis of their particular kick and stroke techniques. Gambril and Lundquist review their performances, give tips on body position, water entry, drills and dryland exercises.

BACKSTROKE—Coach Gambril and Rowdy Gaines discuss everything from getting started in the stroke to refinement of techniques at the Olympic level. Film clips of Dave Wilson, Rick Carey and other Olympic backstroke swimmers and slow-motion analysis of the skills they utilize for backstroke sprint and distance events.

Don Gambril's Classic Series

Men's Swimming—Expert technical instruction from top coaches for sprint and distance freestyle, back, breast and fly. **\$52.45 each.**

Swimming Techniques—Teaching and learning techniques for sprint and distance free, butterfly, breaststroke and backstroke. **\$62.45 each.**

Coaches' Drills—Featuring tried and tested drills for freestyle, backstroke, breaststroke, butterfly, and starts and turns. **\$62.45 each.**

Mail to:
Swimming World
P.O. Box 45497
Los Angeles, CA 90045

FOREIGN COUNTRIES NOTE:

Cassettes are available in the NTC system *only*. Please check for compatibility with your machine.

Gold Medal Series

- ☐ Freestyle
- ☐ Breaststroke
- ☐ Backstroke
- ☐ Butterfly

Classic Series

- ☐ Men's Swimming
- ☐ Swimming Techniques
- ☐ Coaches Drills

☐ VHS

Prices subject to change.

CALIFORNIA RESIDENTS ADD 6 1/2 % SALES TAX

Total enclosed \$ _____

Name _____

Address _____

City/State/Zip _____

Allow 4-6 weeks for delivery.

MasterCard/VISA _____ Exp. Date _____

Enclose Check
Money Order

Total price of video includes domestic postage and handling charges. Add \$5.00 per tape outside U.S.A. Remit by international money order or foreign draft in U.S. dollars. No COD's. No invoicing unless on institutional purchase order.



Sanders completed her collection of medals with a gold in the 200 fly after getting a silver and a bronze earlier in IM competition.

200 IM and last lost in the 400 IM to teammate Jozsef Szabo at Budapest in 1985.

Eric Namesnik again was the closest pursuer, finishing four meters back in 2:01.87. Wharton repeated his Olympic disappointment of not making the final, managing just ninth in the prelims. "I did not swim well at this meet, said Wharton, who also only tied for fifth in the 400 IM after being the silver medalist in Seoul. "If I knew what was wrong, I'd have done something to fix it."

After qualifying first and then being beaten in the IMs, Summer Sanders chose a different tactic for the 200 fly. She took it easy during her heat and entered the final as the fifth seed at 2:13.93 compared to a 2:11.25 for top-qualifier Rie Shito of Japan. The strategy worked as she stayed in front the entire distance, increasing her margin to three meters by the finish in going a personal-best 2:09.24.

the 50 of 25.87 in 1989 but wasn't among the top 50 last year. Teammate Yang Wenji, the world record holder at 24.98, tied for fourth with Jenny Thompson in 28.87.

Kristzina Egerszegi joined Janet Evans and Lin Li as double winners in the women's competition. She blew away the 200 back field, finishing five meters ahead of runner-up Dagmar Hase of Germany. Her winning time of 2:09.15 was the second-fastest performance of all time. Egerszegi was never on pace of the world record of 2:08.60 held by Betsy Mitchell. But, considering a cold wind—worst of the six days—blustered toward the starting end, her swim was tremendous.

Janie Wagstaff, who was third in 2:13.14, was very conscious of the wind. "It was really tough, especially the third 50 because you're tired and going against it."

Egerszegi, though, didn't mention the conditions. She said, "I

"I felt very strong...I was hoping to break the record. That was my aim. I think I can go faster."

—Kristzina Egerszegi

"This is my favorite event, and that helps a lot," said Sanders. "I was just going out there, do my best and see what happens. I don't know why my swims have been unpredictable—maybe because this is my first World Championships. I just kept trying to have a positive attitude."

Shito overtook Australian hero Hayley Lewis the final lap to collect the silver in 2:11.06. Lewis collected the most individual medals in the women's competition—a gold, two silvers and a bronze.

China suffered its biggest disappointment as Wang Xiaohong and Qian Hong, ranked second and third in the world last year, placed just 11th and 20th in the prelims.

In the women's 50, China got a pleasant surprise as Zhuang Yong, rebounding from a disappointing performance in the 100, came from behind to touch out Leigh Ann Fetter and France's Catherine Plewinski in 25.47. Fetter equalled her U.S. record of 25.50 in tying Plewinski for second. Zhuang, 18, runner-up at the Olympics and top-ranked last year in the 100 free, had a best in

felt very strong. I was watching everyone around me, but I was hoping to break the record. That was my aim. I think I can go faster."

The German team, carrying on a West German tradition—undoubtedly inspired by Michael Gross—of dressing up for the final event, appeared in animal costumes for the men's 400 medley relay. But the race turned into a two-team battle between the Americans and Soviets.

The U.S. team needed Matt Biondi to pull out the victory after Dimitriy Volkov had given the Soviets the lead with a 1:00.74 breaststroke leg, fastest in history. Biondi quickly made up the small Soviet lead and gave the U.S. team a two-meter win in 3:39.66. With the wind still heavy, the Americans didn't threaten the world mark of 3:36.93 held by the 1988 U.S. Olympic squad.

The third-place finish by the Germans gave Gross a 13th medal in World Championship competition, adding to his record total. ●

Diving

PERTH, Australia—Early in the last decade, China's national diving team coaches developed a system to identify and recruit youngsters at age 8 with the ideal physical characteristics to be successful in the sport. The program elevated the Chinese to the leader in total medals won by the last World Championships in 1986.

With U.S. great Greg Louganis retired, this year's championships held Jan. 3-13 indoors at the Superdome complex saw the Chinese dominate the gold as well as the total medal count. They captured four of the six events—1-meter events were included for the first time (they aren't in the Olympic program however). Gao Min was the leading individual, taking both women's springboard events. A veteran at age 20, Gao extended her unbeaten streak on 3-meter in major meets to six years. Demonstrating how well the Chinese program works, 14-year-old Sun Shuwei and Fu Mingxia, 12, took the men's and women's platform, respectively—Fu becoming the youngest titlist in any sport in World Championship history.

The United States, which finished second in the total medal count with four behind China's nine, was not without a shining

moment. Kent Ferguson, a six-time U.S. champion but never a winner at a major international meet, won the men's 3-meter over China's Tan Liangde, two-time Olympic silver medalist to Louganis. Ferguson's victory kept alive the U.S. perfect record in the event in championship history, following in the footsteps of the late Phil Boggs (1973-75-78) and Louganis (1982-86).

U.S. co-coach Ron O'Brien said, "While we're no longer on an even footing with the Chinese, they weren't totally dominant. They weren't so far ahead that they're not catchable."

O'Brien believes that to close the gap U.S. Diving, the American governing body, has to institute its own selection process of youngsters for diving and standardize technique instruction and training.

"We can't match the Chinese program because of their political system (the government control and support), but we can do a much better job. We're going to have to identify talent by coming up with a battery of tests and go out to the communities and then develop those youngsters. We have to be sure local-level coaches are trained. We can't leave that to chance. We must implement a program at the junior Olympic level to see that divers are learning the proper techniques."

Men's 1-Meter

In the opening men's event, Holland's Edwin Jongejans became the first diver outside of the United States and China to collect a gold medal at the championships since 1978. Jongejans, though, has trained the past five years in Miami with his sister Daphne, a 3-meter bronze medalist in 1986.

The Dutch diver moved into the lead in the third round and stayed there as the other contenders self-destructed. He won with 588.51 points, 10 more than runner-up Lenzi.

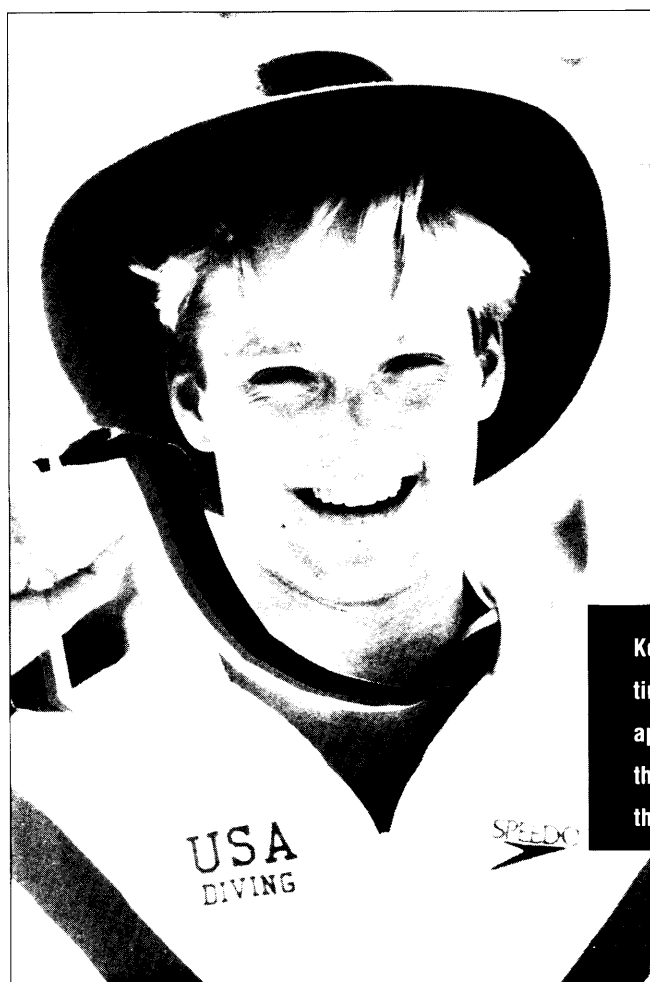
"I don't think you can expect to win a gold medal," said Jongejans, 24. "I thought I was one of five or six guys who could win it."

Lenzi, the 1989 World Cup winner, needed a strong final dive—getting 7s and 8s on a reverse twister (3.0 degree of difficulty)—to hold off China's Wang Yijie by 36-hundredths of a point. The former Indiana diver, 22, competed despite a bad ankle still bothering him since being injured last March.

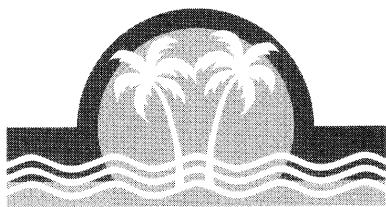
"If Chuck (Felder, a U.S. team trainer) wasn't here, I wouldn't be here," said Lenzi. "He worked on it all day. I'm really happy for getting through the competition."

Men's 3-Meter

In the closest competition of the diving events, Ferguson led Tan by less than two points going into the final round.



Kent Ferguson, a part-time model who has appeared in GQ, won the men's 3-meter for the sole U.S. victory.



1991 Swimming in Southern California

Senior Meets

- Spring Senior Championships, Long Course at Cerritos Olympic Swim Center, March 14-17
- Los Angeles Festival, Long Course at USC Olympic Pool, June 1-2
- Mission Viejo Swim Meet of Champions, Long Course at Mission Viejo, June 20-24
- Los Angeles Invitational, Long Course at USC Olympic Pool, July 25-28

Age Group Meets (nat'l AAA for out-of-district swimmers)

- Pacific Coast Age Group Championships, Short Course at Mission Viejo, March 22-25
- Summer "Q" Championships, Long Course at Irvine Heritage Aquatic Park, July 20-24

Others

- United States Olympic Festival, USC Olympic Pool, July 13-15
- U.S.S. Junior National Championships West, Mission Viejo, August 2-6

For more information, contact Southern California Swimming at P.O. Box 30530, Santa Barbara, CA 93130, 805-683-2925



Come Swim With Us!

But the 27-year-old American felt no undue pressure because he didn't know exactly where he stood in the standings. He never does because he feels he can keep himself more relaxed and focused on his dives.

Diving seventh from the end after a poor prelim performance, Ferguson came through with the highest score of the event—83.16 points (two 8s, two 8.5s and a 9) on a reverse twister (3.3). Tan still had a chance to beat Ferguson which he'd done on the last dive twice in the past at the 1987 and 1989 World Cups. O'Brien told this to his diver who put on his headphones and went outside to do some word puzzles. Tan would win by getting at least four 8.5s and an 8 on an inward tuck (3.4). Instead, he got three 7.5s and two 8s to give Ferguson the victory, 650.25 to 643.95.

"I'm in a state of disbelief. When I get here, I feel it's icing on the cake."

—Kent Ferguson

"I'm in a state of disbelief," said Ferguson, who missed by one place of making each of the last two Olympic teams. "When I get here, I feel it's icing on the cake. The trials are much more intense.

"It (the victory) gives me confidence to know I'm up there."

Men's 10-Meter

Xiong Ni, as a 14-year-old, pushed Greg Louganis to the limit at the Olympics and the following year became the World Cup champion. But, in China, you can't rest on your laurels. There's always another young phenom to supplant you.

Leading through seven rounds, Xiong came up short on back and reverse tucks and was overtaken by 4-foot-8, 77-pound Sun Shuwei. The final round saw Sun tackling the most difficult dive of the event, a reverse tuck (3.4) and needing at least three 6s and two 6.5s for the win. He responded with four 8.5s and an 8 for the highest score of the contest and a final total of 626.79. Xiong gave China the only sweep in the diving competition with 603.81 points.

Sun, who only began competing internationally last May and was just sixth at the Goodwill meet, wasn't expecting to

win. He overcame a bad dive on an armstand reverse tuck in the sixth round when he was way short for 3.5s and 4s.

"I'm not strong enough to do that difficult dive," he said. Otherwise, size is on his side.

Soviet diver Georgiy Tchogovadze, the bronze medalist at 580.68, is 5-10 and 149 pounds. He said, "For me, it's (being so tall comparatively) is a big problem (on platform)."

Women's 1-Meter

Because it's a new event to international competition and absent from the Olympics, the 1-meter is given less emphasis by the Chinese as the other two boards. And Gao Min's training has been interrupted by shoulder and foot injuries

suffered last October at the Asian Games. She aggravated her shoulder problem two days before the competition and needed a cortisone injection. In the prelims, she finished only fourth.

Yet, the following day in the final, Gao moved into the lead on the last required dive and never looked back. The 20-year-old Chinese star built up a 21-point advantage going into the last round by nailing an inward pike (2.4) for 61.20 points, the highest score of the event. Even a subpar final effort in which she got 6s and 6.5s on an inward pike (2.4) left her 10 points in front of the field at 478.26 as all the divers experienced trouble during the optionals.

"Because I had little training (due to the injuries), I was very nervous from the beginning to the end," said Gao. "Hurting my shoulder affected my confidence. But I never gave up."

Wendy Lucero held the second position from the fifth round on. The 27-year-old American lost a chance to catch Gao when she went over on a reverse twister (2.6) on her ninth dive. She came back to hit an inward pike (2.4) for 8s and 8.5s and finish with 467.82 points for the silver.

"I didn't expect to do so well because

I haven't been competing up to par," she said. "I didn't back down. I went for my dives and maintained consistency. That was a breakthrough."

Lucero has been bothered by an injury to the leg she uses to take off and didn't make the U.S. team on 3-meter where she was an Olympian.

Women's 3-Meter

Gao Min has an incentive to continue her dominance in diving. If she finishes in the top 10 of a public poll conducted to select the favorite Chinese athletes, she receives from \$1,000 to \$2,000 from the government. That is a lot of money when you consider the average Chinese worker only makes \$40 a month.

On 3-meter, Gao is like money in the bank at the big meets. In the final, she led for all except the opening round. Again as on 1-meter, her best effort came in the ninth round when she became the only competitor to get over 60 points on a dive with 7.5s on an inward pike (3.0). She went over on a final-round reverse twister (2.9) and yet won by 14 points with a 539.01 total.

"This championships is a hard job for me," said Gao. "I got help from the doctors and coaches of our team. My shoulder felt better than during the 1-meter event."

Soviet diver Irina Lashko, runner-up to Gao at the World Cup and Goodwill meets, was second again with 524.70 points. She said, "I know Gao is stronger on 3-meter. I think she works harder than the other divers."

Women's 10-Meter

Fu Mingxia may have been just 12 years and 149 days old, but she performed like a nerveless veteran. The Chinese diver excelled on the optionals, taking advantage of her small build—she's 4-foot-8 and 90 pounds—to perform by far the most difficult list of the event. She scored over 60 points on all of them, the only competitor to do so, in amassing a total of 426.51 to win by 23.

"I was not thinking about getting gold before the competition," said Fu, a former gymnast who has been diving for four years. She added, though, she wasn't nervous because this was her fourth international competition.

Soviet diver Elena Miroshina, 16, lifted herself into second on the last dive when she got the biggest score of the event—72 points—on a back twister (3.2).

Getting the bronze was a *deja vu* experience for Wendy Williams. Just as in Seoul, she came through with her best score on a final inward pike (2.8) to pass a Chinese diver for third.

"I feel I'm constantly having to prove myself," said Williams, 23. "I'm always asked if I can compete with the Chinese. I didn't dive my best, but I'm happy with my performance."

The diver Williams passed this time was Xu Yanmei, the Olympic gold medalist. Xu was the top qualifier in the prelims and led in the final until coming up short on a forward pike (3.0). According to Chinese coach Xu Yiming, his star missed too much training because of shoulder and hip injuries and consequently was not strong enough physically to perform well the second day.

Kim Chun-ok, a 15-year-old North Korean, impressed with a fifth place finish in her first world competition. She improved rapidly after training with a Chinese coach in her country. ●

—By Russ Ewald

Synchro



Top left, clockwise, Dyroen, Babb, Karen and Sarah Josephson, Schneyder, Svitenko, Savery and Simmons gave the USA its first team win since the 1978 meet.

For the first time in over a decade, the United States captured a World Championship title in both duet and team events.

While USA-Canada-Japan once again dominated the medals, it was evident other countries (most notably the Soviet Union and China) making their second World Championships appearance would be top contenders in the near future.

Overall, the quality of the competition was the highest ever with marginal point differences separating the medalists from the finalists. Even "Down Under," synchronized swimming proved its popularity among spectators by becoming the World Championship's first sold-out event.

Solo

Canada's Sylvie Frechette overcame all obstacles to win the solo title. In past years, she had been overshadowed by fellow Canadian Carolyn Waldo, gold medalist of the 1986 World Championships and 1988 Olympic Games. She had also been beaten twice by USA's Kristen Babb.

But at Perth, Frechette started things off right by impressing the crowd and judges in the preliminaries with an unusual display of flexibility, strength and showmanship.

At the end of her 3½-minute routine, she performed an up-side down split while clapping between her legs to the music.

This crowd-pleasing maneuver earned her a 98.36, a slight 2-tenth lead over Babb (98.16).

Two days later, Frechette turned in a strong compulsory figure performance to win the figure competition. Since figures make up 55 percent of the total score, the 23-year-old Montreal native went into the finals with a comfortable 4-point lead.

After being out for a year due to a serious back injury, Babb proved she was ready to compete head-to-head with Frechette. Swimming to Stravinsky's "Firebird," Babb displayed her distinctive, powerful style in a more difficult and well-balanced program.

While the judges awarded Babb with five 9.9s in Technical Merit and six 9.9s in Artistic Impression for a total score of 98.880, it was not enough to overtake Frechette's three 10s in Technical Merit and four 10s in Artistic Impression for a total routine score of 99.480.

Combined with figures, Frechette's winning margin was 201.013 to 196.314. Japan's Mikako Kotani, 1988 Olympic bronze medalist, took third with 195.110, followed by the Soviet Union's Olga Sedakova.

Frechette and Babb have now met head-to-head four times with each beating the other twice. "This is one time," stated Babb after her performance. "We are now even in wins and losses—it's anyone's ball game."

Duet

After nearly closing the gap on their Canadian rivals, Waldo and Cameron, at the 1988 Olympics and taking a year off in 1989, U.S. duet partners, Karen and Sarah Josephson, won their first-

ever World Championship title by dominating the competition.

After prelims, the "J's" (as they are often referred to) had a half-point lead over the Japanese duet of Mikako Kotani and Aki Takayama, 98.960 to 98.400.

The Josephsons finished the compulsory figure competition in second and third place with a combined figure average of 100.242—the highest duet figure average in international competition history. From there, the "J's" were never challenged.

They earned two 10s in Technical Merit and six 10s in Artistic Impression in finals and made synchro history by scoring the highest overall total score, 199.762, claiming the title by $5\frac{1}{2}$ points.

"It's great to be back," the twins said in unison. "It felt good. It was a fun swim. We were more relaxed than usual because of our figure lead," Karen continued.

"Because of our comeback, we knew that our performance had to be better than in the Olympics. Everyone remembered our performance there, and it was important to perform as good or better here," Sarah added.

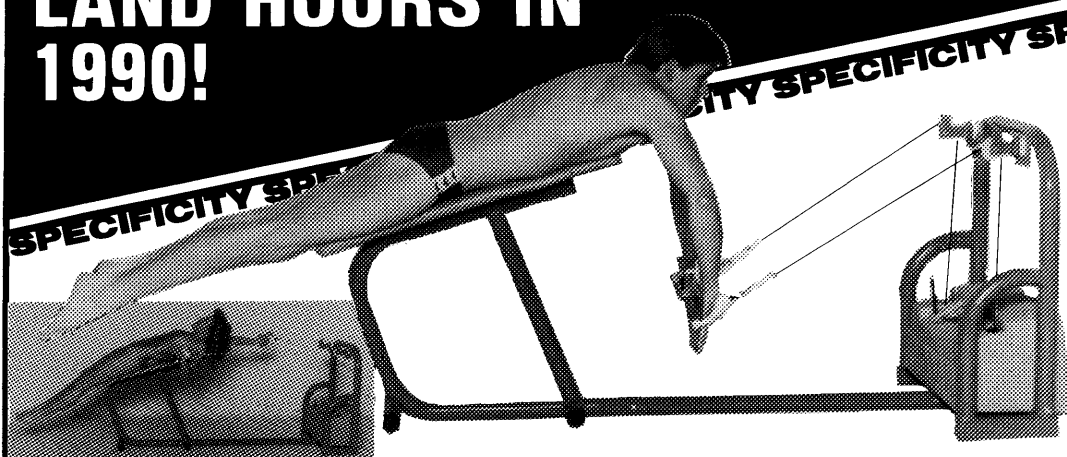
Finishing behind the Josephsons were the Japanese duo (194.307) and the Canadians, Lisa Alexander and Kathy Glen (192.649).

Overall, though, it was the fourth-place Soviets (192.269) who earned the respect of the synchro world with their highly spirited, crowd-pleasing performance that brought the sport closer to global recognition and participation by challenging the traditional powers.

Team

While not recognized as an Olympic event, the team com-

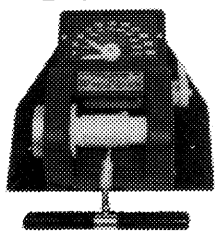
THE SOLUTION FOR THE 7488 DRY LAND HOURS IN 1990!



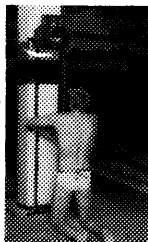
26E ELECTRONIC READ OUT FOR:

- POWER—single stroke
- WORK—for all strokes
- COUNTS STROKES
- TIME—provides time exercised.
Timing, work and strokes can be programmed.
Buzzer sounds at end of program.

SUPER MINI-GYMS



180 & 180E provides wall exercises for stroke specificity.



Swimming is isokinetic. All strokes can be simulated perfectly for technique and power gains.

FREE video instruction film with each Swim Bench.
All units shipped UPS.

CALL TOLL FREE

1-800-821-3126

FITNESS SYSTEMS, INC.

P.O. Box 266, Independence, Missouri 64051

FAX: 816-254-1557



The Josephsons, left, were the only synchro swimmers to capture two gold medals, taking the duet and helping the U.S. squad end Canada's win streak at two in the championships.

petition (eight swimmers) is, perhaps, the sport's most popular event among spectators and participants alike. And as the first sold-out event of the VI World Championships, spectators witnessed several firsts:

- It was the first time in team competition that all 10s were awarded for Artistic Impression (accomplished by the United States).

- China and Italy finished among the top eight for the first time at a World Championships.

Even though the United States entered the finals with a $2\frac{1}{2}$ -point lead, Canada quickly applied some pressure with a spectacular first move in which a swimmer was raised above the surface to a standing

position and another swimmer was boosted six feet above the water and over the standing swimmer.

Their creative choreography earned them six 10s in Artistic Impression and five 9.9s in Technical Merit for a routine score of 99.280.

But the Americans showcased their ability to combine athletics and artistry with a near-flawless execution, earning three 10s for Technical Merit and straight 10s in Artistic Impression for a 99.640 score. Added to their figures, their gold-medal total was 196.144.

Canada took the silver (193.259) and Japan the bronze (189.753). ●

Long Distance Swimming

"With 8,000 meters to go, I started to pick up the pace," explained Chad Hundebly about his strategy during the inaugural 25-kilometer event at the World Swimming Championships. "For the first five miles I just hung with the leaders, swimming strong, but fairly easily." The early leaders included a trio of 22-year-olds: American Jay Wilkerson, Australian David O'Brien and Italian Sergio Chariandini.

At the 8-mile halfway point, 6-7 Chariandini and German Christof Wandratsch began to push the pace in the unusually calm water of Perth's Swan River. Hundebly remained behind, swimming at a controlled sub-1:15 per 100 meter pace. Flip Darr, Hundebly's "eyes and ears" aboard his escort boat, urged Hundebly to stick with his patient race plan.

Darr, capitalizing on the navigational error, signaled to Hundebly to make his move. In short order, he caught Wandratsch, O'Brien and two other swimmers. O'Brien, who ended up third in 5:08.53, attempted to stay with Hundebly, but the SMU sophomore was up to the challenge: "There comes a time in every race when you have to make a decision. I just picked up the intensity. You have to ask yourself, 'Why am I here?'"

With four miles to go, Hundebly answered his self-imposed question by finally passing Chariandini and then slowly opening up a $1\frac{1}{2}$ -minute lead that continued onto the finish. A characteristically modest Hundebly said, "I felt good. (The 5:01.45 swim) was a gratifying win that I've worked toward for

"There comes a time in every race when you have to make a decision. I just picked up the intensity."

—Chad Hundebly

"I didn't go out as hard as I have in the past. I've crashed (and lost) my other two 25-km swims," Hundebly said later. "He negative-split the swim and concentrated on taking in enough fluids," added Darr, who provided Hundebly with sports drinks and pre-arranged hand messages at least every 20 minutes.

Unfortunately for Chariandini and Wandratsch, their escort boats went slightly off course around the 9-mile mark.

a long time."

In contrast to the subdued Hundebly, a more flamboyant Australian won the women's race. Shelley Taylor-Smith, wearing a two-piece bikini suit that was approved by FINA the day before the race, had burst into a quick lead in the first mile over her two American rivals, Martha Jahn and Karen Burton.

Both Jahn and Burton, who had handed Taylor-Smith her only defeat in 1990 over this same course and distance, were



confident of their ability to catch Taylor-Smith. "We've trained well, regularly swimming straight 15,000-meter swims in the pool and doing 3-4-hour lake and ocean workouts as often as we can."

However, once Taylor-Smith, a former University of Arkansas swimmer, was able to extend her 70-meter lead achieved in the first mile, her confidence grew, and she never looked back. "When I was in front by 200 meters (at the 5-mile mark), I knew there was no stopping me."

Not even three different kinds of jellyfish could stop the hometown-favorite Taylor-Smith (tenth overall in 5:21:05), who was able to lift up the bottom of her bikini top to remove the ever-present jellyfish. Meanwhile, Jahn, who finished second in 5:25:16, "gave it all that I had to give" while swimming with a badly swollen face due to numerous jellyfish stings.

The American team captured the overall team championship for the fastest three cumulative times (15:41:21) with Australia second (15:49:26). The Hungarians, nearly matching the performances of their countrymen in the pool, placed a surprising third overall. "We achieved nearly all of our goals, especially the team championship. I've worked so long and hard with these kids. They're great," said an obviously happy

national team coach, Penny Dean.

And, to the surprise of no one, Hundebly was back in the pool the next day training for the upcoming NCAA season and the next 25-km race at the Pan Pacifics. "(At the finish) I felt like I could do another one." No doubt Hundebly's chance will come soon enough. ●

—By Steven Munatones

U.S. swimmer Hundebly (center) from the Irvine (Calif.) won the long distance event followed by Italian Chariandini (left) and O'Brien of Australia.

LOW PRICES • SERVING YOU SINCE 1975 • NO DIE CHARGE
CUSTOM MADE MEDALS, PINS,
MEDALLIONS & PATCHES.

Custom Cloisonne Medals



Die Struck Medallions



Custom Pins, Charms, Patches



All Custom Pieces: NO DIE CHARGES! • High quality • Your design—any colors, shapes, sizes, plus your choice of ribbon, chain, neck ribbon or key ring • 8 week delivery • Send sketch or fax today.

Phone & Fax Order Lines:
CA: (714) 492-4155 • USA:
(800) 421-6735 • Fax: (714)
492-4158



Stock Medals

Immediate delivery on these rich multi-colored, hard enamel, die-struck medals. Ribbon included. Gold, silver, or bronze finish, carded and packaged. Send \$1.25 for postpaid sample today (specify choice).



KB Specialties, Inc.

944 Calle Amanecer, Suite F • Dept. SW
 P.O.B. 72005 • San Clemente, Calif. 92672

Water Polo



Men

33, 31, 30, 29. These aren't your winning lottery numbers. These are the ages of some of the members of the U.S. men's national water polo team. The average age on the team is 27, but it didn't ring out "jackpot" in team experience.

The American men's squad, touted as a possible favorite in the FINA VIth World Championships in Perth, fell below medal expectations with an inexperienced squad.

Although missing their first World Championship medal, the U.S. team did get the monkey off its back by sealing a bid for the 1992 Olympic Games.

Going into the tournament, the U.S. needed leadership. Joining the international unseasoned crew to help that effort was 31-year-old Terry Schroeder—the living legend of American water polo.

"Our team has a lot of young players who are starting to get some good international experience. Now we know that we can play with anyone in the world," said Schroeder, who rejoined the team after the 1990 Goodwill Games.

Behind Schroeder's leadership, the American squad cruised through the opening round of the round-robin tournament with wins over Canada, France and Australia.

U.S. goalie Craig Wilson, one of the few veterans on the team, put a lid on the goal throughout the first round with 27 saves to back up U.S. head coach Bill Barnett's theory—defense wins championships.

At this point the Americans were thinking gold medal.

Wilson recorded 12 saves in the Americans' next game with Germany, but nine squeaked through as the Americans were handed their first loss of the tournament, 9-7. The following game, the Americans needed a win or a tie to advance to the medal round. They held off a late-surging Hungary to salvage a 9-9 tie.

"Our counter-attack defense broke down a little," said Chris Humbert, U.S. two-meter man, but "overall it was a pretty easy win for us."

Although Humbert was a little confused with the outcome, Coach Barnett wasn't.

"We're in! We're going to the Olympics!"

The U.S. secured their Olympic bid, but Yugoslavia

was on tap next. In past tournaments, the U.S. has spun itself into a superstitious jinx against the Yugoslavs.

"We came out on them 5-2, but unfortunately, it was the same score we had on them in both the '84 and '88 Olympics before losing to them," said Schroeder.

The jinx came back to haunt the U.S. again as Yugoslavia took advantage of three 6-on-5 situations to escape with a 7-6 win.

With at least a bronze medal still on the horizon, the Americans were rematched with the Hungarians. Hungary gained sweet revenge on the U.S. with a 13-12 win.

The gold medal game pitted defending world champion and '84 and '88 Olympic champion Yugoslavia against a smaller and less experienced Spanish team.

The Spaniards game plan of cracking down inside on powerful Igor Milanovic almost worked, but a few lapses resulted in costly 6-on-5 situations. Spain held to within one goal in the final minute, 8-7, and gained control of the ball with 19 seconds remaining. A no-look shot hit the right sidebar and bounced away in the waning seconds. Milanovic demonstrated his world-class prowess with two goals in the last three minutes to lead Yugoslavia to its first title defense.

"We knew it would be difficult because finals are always very close," said Milanovic after his team and Coach Nicola Stamenic celebrated with a bottle of champagne in the pool. "They have a good team, but they are too young."

Looking down the road to the '92 Olympics, the Yugoslavians

will again be the team to beat. If the American team finds the right chemistry of experience, they could improve on their silver medal finish at the '88 Games and bring home the gold.

Women

This time it was in Australia. The three times before it was in Spain, Ecuador and Germany. The setting changed, but the result was the same—the United States women's water polo team claimed its fourth consecutive World Championship bronze medal.

The American women downed Hungary for the bronze medal at the VIth FINA World Championships. Previous bronze efforts for the women were in Berlin (1978), Guayquil (1982) and Madrid (1986). Maureen O'Toole-Mendoza, one of the top players in the world, has been a member of the U.S. squad on each of those four teams.

Presently, she is set on retirement, but one scenario would bring her back.

"I'm going to retire after this. If they put it (women's water polo) in the Olympics I would probably come back and try out for the team because it's a goal I've always wanted in life," she said.

O'Toole-Mendoza and her mates sent Australia "down under" on the scoreboard, 8-7, in first round action. The victory over Australia, one of the pre-tournament favorites, gave the Americans early relief.

"It takes all the pressure off us now," said U.S. head coach Sandy Nitta. "We are now dealing the cards. Fate is in our own hands."

Coach Nitta felt the U.S. was handing out the cards, but Hungary showed up for the next hand and broke the dealer, 10-8.

With the loss, the U.S. faced a must-win situation to advance to

the medal round. Brazil, who took a 21-1 pummeling from Australia, took another pummeling from the U.S., 14-0.

The U.S. advanced to the medal round to face Holland. The Dutch, world champions in '78 and '82 and runners-up in '86, took the Americans out of the quest for gold with a 9-6 triumph to advance to the gold medal game.

Once again, the Americans eyed "old reliable"—the bronze medal. Standing in the path was a rematch with Hungary.

Driver Theresa Breckon grabbed the reigns of the U.S. offense and scored what proved to be the game-winning goal. Margo Miranda's goal with 28 seconds remaining sealed the win and the U.S. turned the table on Hungary, 11-9.

"It was the first time the girls came out and weren't playing careful. They seemed less tentative," said Nitta.

The U.S. was inked in the books for another bronze, but the gold medal match between Holland and Canada was still pending.

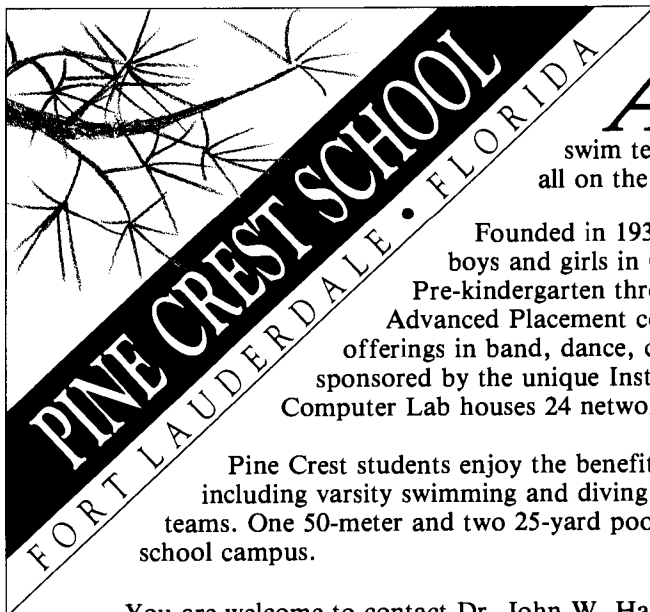
Holland, the dominant international force in women's water polo, already had two world championships and five out of the possible seven FINA World Cup Championships to its credit.

Canada proved to be just a formality for Holland as they successfully defended their World Championship title with a convincing 13-6 win.

Women's water polo has experienced great success at the World Championship level, but the next order of business is to see it in the Olympics. If it does make the Olympic format, then the sport hasn't seen the last of Maureen O'Toole-Mendoza and the United States.

—By Matt Farrell

Photos by Vedat Acikalin and Bill Crabb/Live Action.



PINE CREST SCHOOL
FORT LAUDERDALE • FLORIDA

A dream for most swimmers is to find a high school with exemplary academics, a strong interscholastic swim team, and easy access to a year-round USS program—all on the same campus. This dream is a reality at Pine Crest.

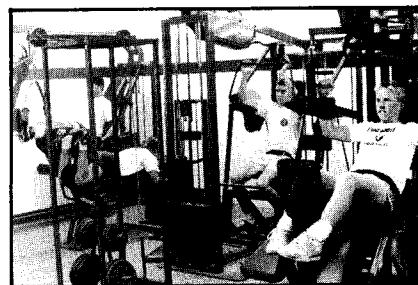
Founded in 1934, this college preparatory school serves boarding boys and girls in Grades 7 through 12 as well as day students from Pre-kindergarten through Grade 12. The academic program offers Advanced Placement courses in all departments and there is a variety of offerings in band, dance, chorus, drama, studio art and political activities sponsored by the unique Institute for Civic Involvement. The Upper School Computer Lab houses 24 networked Apple Macintosh SE models.

Pine Crest students enjoy the benefits of participation on more than 50 athletic teams, including varsity swimming and diving. They may also join USS swimming and USD diving teams. One 50-meter and two 25-yard pools form an aquatic complex located on the 47-acre school campus.

You are welcome to contact Dr. John W. Harrington for information about the academic and boarding programs.

His telephone number is (305) 492-4103. There is a policy of non-discrimination in all school programs.

Pine Crest School
1501 Northeast 62nd Street,
Fort Lauderdale, Florida 33334-5199
Admission Office: (305) 492-4103, Fax: (305) 492-4167



CAMP LISTINGS

The listings on pages 44-49 are paid advertisements.

AGGIE SWIM CAMP

June 23-28, June 30-July 5

Carol or Mel Nash

Aggie Swim Camp
Athletic Department
Texas A&M University
College Station, TX 77843
409-845-5545 (office); 409-693-6761 (home)

Mel Nash, head coach of men's and women's swimming at Texas A&M University, has coached Pan Am and Goodwill Games gold medalists, and is a former Pan Am and world champion swimmer. He and his highly-qualified staff will spend a week with you on the beautiful campus of Texas A&M perfecting strokes, starts and turns. In addition to technique work, there will be one or two water workouts daily depending on age, ability and training background. Elite training camp available. Videotaping sessions with stroke analysis will be held and each camper goes home with a video shot above and below water. Our excellent staff-to-swimmer ratio (approximately 1:6) affords the opportunity for individual attention. Limited enrollment facilitates one-on-one coaching. Live and eat on campus in air-conditioned dorms. The pool complex houses an outdoor 8-lane, 50-meter pool and a 6-lane, 25-yard pool, plus an indoor 8-lane, 25-yard pool. Girls and boys ages 8-17. Cost \$325.00. Spend a great week of learning, training and fun with us in Aggieland! See display ad page 50.

CAMP AK-O-MAK

June 27-August 15 (7- and 5-week sessions)

Marci and Buddy Williams

3631 Mandarin Woods Dr. N.
Jacksonville, FL 32223
800-368-4152

For 62 years a personal development and wilderness sports camp for young girls. Located on Ahmic Lake, Ontario, Canada. Summer swimming as it should be, outdoors in one of Ontario's beautiful wilderness settings. A complete camp experience with overnight canoe trips and skills taught in sailing, tennis, golf and 23 other sports. Competitive and noncompetitive swim programs in 50-meter, 50-yard and 25-yard bulkhead pools that complement our open-water swimming. The purpose at Ak-O-Mak is to expose campers to other sports activities while maintaining and improving their swimming skills. Individualized instruction according to needs and interests. Activities selected to strengthen and develop the competitive swimmer. Staff members are chosen for their ability to teach and inspire young athletes to set meaningful, challenging and achievable goals not only in swimming and sports, but in all aspects of life. Visiting coaches enhance our daily programs. This summer's special coaches are Micki King, last year's Diving Coach of the Year; Ray Bussard, 1984's Olympic swim sprint coach; and Carolyn Waldo, double Olympic gold medalist in synchronized swimming. Seven- and five-week ses-

sions, with enrollment open to girls age 8-17. \$2020 7-week, \$1750 5-week. Enrollment is limited to 100. Brother camp Chikopi. Write or call for literature and information. See display ad page 56.

ANNAPOLIS WATER POLO CAMP

June 23-28

Annapolis Water Polo Camp

U.S. Naval Academy
Annapolis, MD 21402
301-267-3958

This summer's seventh annual Water Polo Camp will be held at the historic U.S. Naval Academy in Annapolis, Md. Campers live and eat in the Bancroft Hall dormitory. Day campers are also welcome. Camp director is Mike Schofield, head coach at Navy, and the Annapolis Water Polo Club. Camp staff will include: U.S. men's national coach Bill Barnett, U.S. women's assistant national coach Lynn Kachmarik, Randy Burgess, Paul Barren, Mladen Stanicic, Ron Akins and many other nationally respected coaches. Student-coach ratio will be 8:1. Training program: 2 or 3 sessions per day. Emphasis will be on individual skill development. Workouts will include conditioning, individual and group skill building, drills, game situations and scrimmages. Classroom time will cover strategy, mental preparation, offensive and defensive team concepts. Enrollment: Open to players from age 11 to rising high school seniors (male and female) excluding 1991 graduating seniors, due to NCAA rules. Some previous swimming water polo experience necessary. Younger applicants will be considered individually. Cost: Resident \$300. Day Campers \$200. Write or call for brochure.

ARIZONA SPORTS RANCH STROKE SPECIALTY CAMPS

June 2-9, June 9-16 (breaststroke)
June 16-23, June 23-30 (freestyle)
June 30-July 7, July 7-14 (butterfly)
July 14-21, July 21-28 (backstroke)
July 28-Aug. 4, Aug. 4-11 (IM)

Bob Gillett, Swimming Coach
Arizona Sports Ranch Training Center
19232 N. 38th Street
Phoenix, AZ 85024
602-569-1457

A unique swimming camp format for the advanced age group swimmer—limit is 32 swimmers. Ten one-week camps—two weeks on your specialty recommended. The objective of the camp is to bring together the top young swimmers in each stroke event. The swimmers get to know the top individuals from around the country in their specialty, who they will be competing against during their senior careers. It is very motivating to have great friends at the national level! They learn together and see what other top age group swimmers are capable of doing and how they progress. A number of top 9-10, 11-12, 13-14 and young Junior National swimmers have already committed to their specialty weeks. In addition to stroke-specific workouts, the swimmers participate in many unique, fun training sets using "Flex-Lane Training." Each swimmer receives videotape stroke analysis using the unique ASR "Swimming Video Chalkboard." Each swimmer receives several "Computer Assisted Race Evaluations," which identify the specific changes that are needed for faster swimming! The swimmer participates in a lecture series designed to assist them in becoming a very positive, supportive influence on their home team!

ASR is operated on site by owner, swim coaches Bob and Kathy Gillett. Both have masters degrees in physical education and have had many years of successful professional experience at all levels, from local level to world class. Kathy is a college professor of physical education. Bob is an ASCA level 5 coach. He is the originator of CAREPAK—Computer Assisted Race Evaluation and many other innovative swim concepts. ASR Training Center is a 10-acre sports facility, with a 25-yard by 50-meter swimming pool, and another 25-yard pool, in addition to many other sports facilities such as lighted tennis courts, basketball, volleyball, soccer, club house, Ranch House and others. Cost: \$400 per week. See display ad page 54.

BALL STATE UNIVERSITY SWIMMING AND DIVING CAMPS

June 2-7, June 9-14, June 16-21, June 23-28 (stroke, start/turn)
July 14-19, July 21-26 (high school)
July 14-19, July 21-26 (diving, boys girls 8-17)

Ball State University

Swimming and Diving—Laura Seibold-Caudill
Women's Athletic Department
Muncie, IN 47306
317-285-5173

Four one-week sessions concentrating on stroke analysis, starts and turns; two one-week training sessions for high school girls and boys; two one-week sessions for diving. Head coaches, Bob Thomas and Laura Seibold-Caudill, have been coordinating for the last 12 years in developing one of Indiana's finest summer camps for age group and high school swimmers and divers. The campers live and eat in the dormitories under full supervision of qualified counselors. Daily routines include: early morning workouts, lectures, biomechanical analysis and videotaping. Evenings are filled with organized recreational and social activity. Each camper will receive an official camp T-shirt, photograph and booklet. Meals are included in the session price. The cost per session is \$240 with special rates for local commuters. NOTE: This is a camp for competitive swimmers eight years and older. Divers should have knowledge of the forward approach and required dives from each of the five categories.

BLUE DOLPHIN SWIM CAMP

June 17-22 (girls); June 24-29 (boys)

Mr. James E. Longnecker

Swimming and Diving Coach
Grove City College
Box 2613
Grove City, PA 16127
412-458-2110 (office)

Grove City College in Grove City, Pa., will be the site of the 24th year of the BDSC. Jim Longnecker, Grove City College swimming and diving coach, is the director and founder of the BDSC. He was recognized in 1977 as a Master Coach and in 1987 as a Distinguished Coach by the College Swimming Coaches Association of America for his outstanding contribution in the field of swimming and diving. Other staff members include some of the finest high school and college coaches from western Pennsylvania, Ohio and New York. The facilities include an 8-lane pool, 25-yard course; 6-lane pool, 25-yard course; Nautilus training center; three gymnasiums, eight racquetball courts, and an 8-lane bowling alley. The BDSC has been designed as an elite stroke camp to develop proper starts, turns and stroke mechanics in the four competitive strokes. This translates into maximum efficiency and better swim-

ming performances. Practices does not make perfect, but perfect practice makes perfect. There will be 24-hour supervision. Girls and boys ages 9 years and older (no graduating seniors). The cost is \$185. The campers stay in dormitories adjacent to the pool and dine in the dorm cafeteria. There will be two swimming sessions in the water per day, weight training program, flexibility exercise program, films of world-class swimmers and an individual evaluation of each camper at the end of the week in addition to recreational activities in the evening. Coach Longnecker hopes that you will be able to join him and his staff for an exciting week.

BOLLES SCHOOL SWIM CAMPS

June 9-14, June 16-21, June 23-28, June 30-July 5, July 7-12; Elite Camp: June 9-July 31

Bolles School Swim Camps

7400 San Jose Blvd.
Jacksonville, FL 32217
904-733-9292; 904-733-0176

Once again The Bolles School will conduct two swim camps this summer. We will be offering five one-week sessions, as well as our Elite Swim Camp that runs for eight weeks. The program will be run under the direction of Gregg Troy and Larry Shofe. Head and Assistant Coaches of The Bolles School and The Bolles School Sharks. Coach Troy and Coach Shofe bring a combined total of 38 years of coaching experience from novice to Olympic gold medalist. The Elite Camp is for swimmers 13 years of age and older. Training will be very intense and directed toward competition in the middle of July. For those swimmers who qualify for the Junior and Senior Nationals, arrangements will be made to be housed the remainder of the summer. The Age Group Camps are for swimmers 9-17 years of age. The typical daily schedule will include: 50 meter and 25 yard training, a stroke session, videotaping, starts and turns, as well as an activity. All instruction will take place on The Bolles School 52-acre campus, located on the St. Johns River. All campers will reside in air-conditioned dormitory rooms in Bolles Hall. All swimming will take place in our 8-lane, 25-yard pool as well as our new 50 meter pool. Write or call Gregg Troy or Larry Shofe for further information. See display ad page 63.

BRIGHAM YOUNG UNIVERSITY SWIMMING CAMP

June 24-28

BYU Conferences and Workshops

155 Harman Building
Provo, UT 84602
801-378-4851

Share the excitement of exceptional aquatics instruction at BYU! Join head coaches Stan Crump and Tim Powers for five days of in-depth personal training and feedback. You'll receive individual computer-based interval training evaluations to determine training guidelines and exercise needs at camp and throughout the year. During classroom instruction you'll study detailed sequential movements of competitive strokes, learn specific training theories for individual goals, view contemporary training films and receive valuable feedback from personal videotapes. During pool sessions you'll experience competitive drills, workout sets, time trials and personal videotaping. During free time, you'll enjoy swimming, bowling, dances, games, movies, contests, skits and campus explorations, as well as BYU's large sports complex for racquetball, basketball and weight training. Share the excitement of a week at Brigham Young University! Camp packages

include instruction, training, recreation, camp T-shirt, and either housing and meals or lunch only. Cost: housing meals \$250, lunch only \$150. Ages 12-17. Please note: This is not a learn-to swim program; only youth with competitive swim experience are invited to attend. Contact us for information and a free brochure.

CALIFORNIA GOLDEN BEAR SWIM CAMP

June 15-20 and June 22-27

California Swim Camp Director

Men's Swimming
61 Harmon Gymnasium
University of California
Berkeley, CA 94720
415-642-0580

ASCA Coach of the Year, NCAA championship team coach, Pan American, World Championships and Olympic coach, North Thornton and two-time Olympian, winner of six gold medals, world record holder Matt Biondi will direct and participate in this uniquely structured swimming camp. Their presence, combined with a limited enrollment, an outstanding associate staff and the latest state-of-the-art training equipment make the Golden Bear Swim Camp an exciting developmental opportunity for boys and girls 10-17 (no graduating high school seniors). All campers must be members of U.S. Swimming, UC Berkeley, one of the world's foremost universities and conveniently located directly across the bay from San Francisco, will provide meals and housing just one block from Harmon Gym and Spieker Aquatics Complex where training will be conducted. Features of the camp include comprehensive instruction and conditioning in all areas of competitive swimming; limited enrollment of 50 participants per session for more personal training; Matt Biondi seminars; Coach Scope subsurface video stroke, turn and start analysis; Biokinetic computerized speed circuit training; in-water video-sync detail stroke velocity analysis; other advanced training devices; classes in nutrition, mental training, sports medicine and biomechanics; planned recreational activities; and 24-hour supervision. Cost: \$500 for resident campers, \$350 for day campers. Registration with \$100 deposit will be accepted on a first-come, first-served basis through May 1; balance of fee will be due June 1. Cancellation by June 1 will involve a \$50 administrative fee charge; after that date no refund of deposit. A seminar in conjunction with the camp offering ASCA and U.S. Swimming credit will be available to a limited number of coaches: \$300. Please apply directly to North Thornton.

CAROLINA SWIMMING CAMP

June 8-13 and June 15-20

Rich DeSelm

Carolina Swimming Camp
914-A Kings Mill Road
Chapel Hill, NC 27514
919-929-1988

Carolina Swimming Camp at the University of North Carolina in Chapel Hill, NC. Overnight and Day Camp sessions for girls and boys ages 9-17 held at the new indoor 50-meter by 25-yard Koury Natatorium (site of the 1989 U.S. Senior Nationals). Swimmers will be supervised by an outstanding coaching staff and experienced counselors, will live in air-conditioned university dorms and will eat meals at the athletic dining hall. Training sessions will offer four ability groups depending upon swimmers' ability and will include AM and PM training sessions; stroke technique instruction and videotaping; flexibility, abdominal and strength developing dryland ses-

sions; mental training; guest lecturers, and organized fun and recreational activities. An elite training program will be available to those who qualify. Sessions are limited to 60 swimmers on a first-come, first-served basis. Cost per session: Overnight \$350. Day Camp \$250. Discounts are available for campers enrolling in more than one session and for additional family members.

CAMP CHIKOPI

June 26-August 14 (7-week session)

June 26-July 24 and July 17-August 14 (4-week sessions)

Bob and Nicky Duenkel

1 Hall of Fame Drive
Fort Lauderdale, FL 33316
305-566-8235; 305-462-6536

Since 1920, On Ahmic Lake, Ontario, Canada. Boys 8-17. The first swim camp and truly the world's only cross-country and triathlon swim camp. Swim this summer with 1984 Olympic coach Ray Bussard, 1988 gold medalist Carolyn Waldo, 1972 Olympic diving champion Micki King and Olympian Gary Hall. Program coached by Bob Duenkel, U.S. Swimming Long Distance National Coach and FINA World Cup Coach for 1988. A swim sports camp that burns up the energy without burning out the swimmer. Competitive and non-competitive swim programs in 50-meter, 25-yard and water polo bulkhead pools along with open-water swimming. We have won four USS National Long Distance Swim Championships since 1981. We also have triathlon training. Swim program includes stroke mechanics, videotaping, mental dynamics and weight training. To back up swimming, we offer 26 sports, including competitive canoeing and kayaking, running, baseball, tennis and soccer. Our staff includes world-class and Olympic coaches. Our staff to camper ratio is 1:4. Campers from more than 12 countries learn from each other and from our environment. Cabin living in the north woods plus competitive sports and cooperative activities develop self-reliance and make this the experience of a lifetime. More than 40 Olympians and 300 All-Americans have come out of our camps. Sister camp Ak-O-Mak, \$2020 7-week session, \$1400 4-week session. Write or call for information and free videotape. See display ad page 56.

COUNSILMAN STROKE ANALYSIS CLINIC

June 2-7, 9-14, 16-21, 23-28; July 7-12, 14-19
Triathlete and Masters special sessions: May 30-June 1 and June 30-July 3

Councilman Stroke Analysis Clinic

424 Meadowbrook Avenue
Bloomington, IN 47401
812-339-8206

Held at Indiana University, Bloomington, Ind. Girls and boys ages 9 years and up. Swimmers live and have meals in a university dormitory, fully supervised by head counselor and staff. Ratio of staff to swimmers is 1:10. Kris Kirchner, I.U. men's swim coach and Chet Jastremski, M.D., I.U. women's swim coach will be in full attendance at each session. Doc Councilman will provide the lecture sessions. Each swimmer is videotaped and swimming strokes are analyzed daily. Two workouts a day ensure that conditioning is improved. Emphasis is on stroke analysis, starts and turns. Each participant takes home a stroke analysis critique booklet. Swimmers are classified according to age and submitted times. 50-meter outdoor and 25-yard indoor pools. Each swimmer receives a camp T-shirt. \$350 per session. See display ad page 50.

FALCON COMPETITIVE SWIMMING CAMPS

June 9-14, June 16-21

Falcon Competitive Swimming Camp
Sports Ticket Office
U.S. Air Force Academy, CO 80840-5426
800-666-USAF

Offered in conjunction with the 1991 Falcon Sports Camps on the grounds of the United States Air Force Academy in beautiful Colorado Springs, Colo. The Falcon Competitive Swimming Camp is directed by Casey Converse, 1976 Olympic team member and coach of the U.S. Air Force Academy men's and women's swim teams. Camp format includes stroke technique and analysis as well as workout programs appropriate to the level of each athlete. 24-hour supervision with evening recreation programs. Transportation from Colorado Springs airport (not Denver). Facilities include a 50-meter indoor pool, 1- and 3-meter Duralum springboards, and 5- and 10-meter platform. All college coaching staff. \$275 resident (\$52 deposit), \$160 commuter (\$30 deposit).

HAMILTON COLLEGE COMPETITIVE SWIM CAMP

June 23-28, June 30-July 5, July 7-12

Dave Thompson
Hamilton College Swimming
Clinton, NY 13323
315-859-4754

The philosophy of Hamilton College Swim Camp is to improve fundamental skills of competitive swimmers. The camp is designed for young men and women ages 10-18. The focus of the teaching, both in the water and on dry land, is proper stroke and turning techniques. In order to provide this environment each session will be limited to a maximum of 50 participants. The ratio of staff to participants is 1:8 and includes 24-hour supervision. Each session includes a full day of instruction with a different member of the U.S. Olympic swim team, individual stroke analysis and videotaping, three daily water training sessions, three daily dryland training sessions, nutritional review and body composition analysis, Nautilus and free weight equipment training, evening activities and special events. Cost: \$340 per week, includes room/board, videotaping and coaching.

HUSKER SWIM CAMP

June 2-6, June 9-13 (one-week stroke camps)
June 6-9 (four-day start and turn camp)
June 2-14 (intensive training camp)

Husker Swim Camp
University of Nebraska
Bob Devaney Sports Center, Room 125
Lincoln, NE 68588
402-472-6466; 402-472-6474

Train with the champions at the Bob Devaney Sports Center, home of the University of Nebraska Cornhuskers, wherein the last 12 years the men's and women's programs have won 15 conference titles. Head coaches Ray Huppert and Cal Bentz will be offering three formats. (1) Two 1-Week Stroke Camps: ages 9-17, limit 75 campers per week, \$225. (2) 4-Day Start and Turn Camp: ages 9-17, limit 125 campers, \$195 or \$100 combined with Stroke Camp. (3) Intensive Training Camp: two weeks, ages 11-17, limit 60 campers, \$475. Both Coach Huppert and

Coach Bentz will be in attendance daily during each of the three camp formats. Air-conditioned dorms, three sessions per day, extensive recreational facilities. Large experienced staff to provide individual attention. 10-lane indoor pool. Positive thinking/relaxation sessions. Film review of world-class swimmers. Videotape analysis of strokes.

ILLINOIS STATE SWIM CAMP

June 9-14, June 16-21

Illinois State Swim Camp
Professional Development
Illinois State University
Normal, IL 61761
309-438-2160; 309-438-3633

Held on the campus of Illinois State University in Normal, Ill. Steve Paska and Dick Hawes, ISU head women's and assistant coach, respectively, will direct the camp with additional instruction provided by current and former swimmers. The camp is open to swimmers ages 9-17 (no high school seniors). Emphasis will be on stroke mechanics, nutrition, starts, turns, dryland conditioning and group activities. Each swimmer will have the four competitive strokes videotaped and analyzed. The swimmer keeps the videotape. Resident cost: \$230. Commuter cost: \$180. Registrations due by May 24, 1991.

ITHACA COLLEGE SWIM CAMPS

June 23-28, June 30-July 5, July 7-12, July 14-19 (stroke camp)
July 28-August 8 (training camp)

Swim Camps
Division of Continuing Education and Summer Sessions
Ithaca College
953 Danby Road
Ithaca, NY 14850
607-274-3143

Intense, yet enjoyable swim camps for male and female competitive swimmers ages 10-18. Directed by Kevin Markwardt. The camps are offered in two formats. (1) Stroke Camps: four one-week camps which enable accomplished swimmers to develop further their swimming skills and techniques with concentration on starts, turns and all four strokes. Extensive above and underwater videotaping for one-on-one stroke help and review as well as dryland workouts, sports psychology, nutrition and diet lectures. \$287 per week. (2) Training Camp: a 12-day camp emphasizing conditioning and proper training habits with high-quality workouts, addressing each of the major energy systems. Dryland workouts, lectures, stroke analysis with a strong emphasis on above and underwater videotaping. Recreational activities including trip to local state park. Enrollment limited. \$525. Six-lane, 25-yard indoor pool and outdoor pool. Live-in coaches and counselors. Full meal plan. Use of college recreational facilities, including tennis courts, gymnasium, recreation room, track and fitness trails.

JAYHAWK TRAINING CAMP

June 2-7 and June 9-14

Gary Kempf
University of Kansas Swimming
221 Allen Field House
Lawrence, KS 66045
913-864-4877

This technique and training camp is run by Gary Kempf, head men's and women's swimming and diving coach at the University of Kansas. Kempf has coached 11 Big-8 conference championship teams, 35 individual All-Americans, two American record holders, and was part of the coaching staff of the World Student Games in Yugoslavia and the 1985 and 1989 Olympic Sports Festival. This camp is in its second year and will be hosted by Emporia State University in Emporia, Kansas. The facility is an 8-lane, 25-meter pool and has a small instructional pool available. The camp specializes in technique training in the morning; videotaping and actual workout training in the afternoon. Weight training and flexibility programs will be introduced. Classroom discussions will be held daily, covering topics such as race strategy, stroke technique, goal setting, sports psychology, nutrition, academics and current peer pressure topics. The campers will be housed in an Emporia State University dormitory, dine at the university cafeteria and will be under close 24-hour supervision by experienced and enthusiastic counselors. University of Kansas swimming staff members will assist in the camp, as will several "celebrity speakers." The cost of the camp will be \$240 for full-time campers and \$200 for day campers. Space is limited, so early enrollment is advised.

LONGHORN SWIMMING CAMP

June 2 - July 19 (seven one-week sessions)

Longhorn Swimming Camp
Ann McIntosh, Director
1900 E. Campus Dr.
Austin, TX 78705
512-471-1974, 512-327-5550 (evenings, message)

The coaching staff is headed by 1988 Olympic coach Eddie Reese (NCAA team titles 1981, 1988-90) and Mark Schubert (59 USS national team titles and 1990 NCAA team title). The 14th annual competitive swim camp is held at the Texas Swim Center on the University of Texas campus at Austin for swimmers ages 9-17. Multiple week sessions available. Optional fun-filled, Saturday excursions available to multiple-week campers (extra charge). 50-meter by 25-yard indoor pool. Weight training with Nautilus, isokinetic devices and free weights. Four ability groupings for more individualized instruction. Training program includes long course training, two technique sessions and dryland exercises daily as well as classroom discussions and videotaping review. Daily social activities and field trips planned and supervised. Elite training group for those who qualify. 24-hour supervision. Cost \$400 per week includes room, board, coaching, camp T-shirt, and airport or bus pick-up and delivery as needed. See display ad page 51.

TERRY MAUL SEMINOLE SWIM CAMP

June 17-22, June 24-29, July 1-6

Terry Maul
100 Tully Gym
Florida State University
Tallahassee, FL 32306
904-644-1091

Florida State University, Tallahassee, Fla. The coaching staff is headed by Terry Maul, head coach at Florida State University and 1990 head coach of the champion East team at the U.S. Olympic Festival. Dr. Jodi Yambor, sport psychologist for the University of Miami Hurricane athletic department and former All-American swimmer, will also be on the staff. This camp is directed toward competitive male and female swimmers from age group to senior

national level. Minimum age: 10 years. Supervised housing in Cash Hall, an off-campus dormitory with pool, rec room and cafeteria will be provided for resident campers. Camp activities will consist of two swimming sessions daily, one psychological training session daily, one coaches seminar daily, videotaping of strokes, written stroke evaluation, analysis of videotape and planned recreational activities on two or three evenings. Rates: \$340 per week for residents, \$220 per week for day campers (food not provided for day campers).

MISSION VIEJO NADADORES SUMMER SWIM CAMP

June 2-8, June 9-15, June 30-July 6, July 7-13,
July 14-20, July 21-27

Mr. Terry Stoddard, Director
Mission Viejo Nadadores Swim Camps
27341 Trabuco Circle
Mission Viejo, CA 92692
714-951-6872, ext. 2294

Under the direction of Terry W. Stoddard, the Mission Viejo Nadadores will be offering six one-week camp sessions at our International Swim Complex in Mission Viejo, Calif. These sessions will be offered for competitive swimmers ages 9-17. Included in the camp will be video stroke sessions, two training sessions daily, clinic talks and conditioning work with emphasis on individual skill development. Camp participants will be housed at a local hotel with fully qualified supervision. The cost of \$450/week includes ground transportation, room and board and the total cost of our swim camp instruction/supervision.

MUSTANG SWIM CAMP

June 9-14, June 16-21

Greg or Lisa Rhodenbaugh
Box 234, SMU
Dallas, TX 75275
214-692-2200 (office), 214-373-9181 (home)

Southern Methodist University in Dallas, Texas is the site of the Mustang Swim Camp. Eddie Sinnott and Steve Collins, SMU head men's and women's coaches, respectively, will conduct two one-week sessions. Swimmers will live and dine in university dormitories adjacent to the pool and will have 24-hour supervision. Facilities include an 8-lane, 50-meter course and a 6-lane, 25-yard course, which will accommodate two water training sessions: one start, turn and stroke refinement session and one individual videotape analysis session. Other activities will include nutrition and weight training workshops, dryland training and recreational sports such as volleyball, water polo, softball and basketball. Applications will be accepted on a first-come, first-served basis from all male and female competitive swimmers aged 10-17 years. Fees for resident campers are \$325 per week; day campers will pay \$250 per week.

JACK NELSON SWIM CAMP

June 16-July 27

Jack Nelson Swim Camp
503 Seabreeze Blvd.
Fort Lauderdale, FL 33316
305-764-4822

We believe there are two good reasons to go to swim camp. The first is an intense period of learning about swimming technique. The second is to inspire the athlete to be a better person, and a better, more

committed team member. At the Jack Nelson Swim Camp, "Access to Success is Through the Mind." We offer three technical sessions in the water each day, featuring stroke technique and improving starts and turns. We are totally committed to the improvement of each individual. Daily contact and lectures with Jack Nelson and special guests each week. Daily schedules maximize instructional time and feature lectures, water time and supervised group activities. The International Swimming Hall of Fame is in our back yard, and we will utilize its presence to help teach swimmers about the history, tradition and future of swimming. Our pool facilities are 20 lanes of brand-new 50-meter pool, and new locker rooms and training rooms. Registration is available for one week or multiple weeks.

OHIO STATE SWIM CAMP

June 10-July 12

Ohio State Swim Camp
410 Woody Hayes Drive
Columbus, OH 43210
614-292-5052 (office)

Held on the Ohio State University campus in Columbus, Ohio. Coached by Ohio State head coaches Jim Montrella and Bill Wadley. Six one-week camps open to swimmers age 10 and over (no graduating seniors). 50-meter and 25-yard indoor pools. Emphasis will be on stroke mechanics, starts, turns, visualization, relaxation techniques, nutrition and group activities. Elite training available to those who qualify. Fully supervised, three meals per day. All strokes videotaped and analyzed. Reduced rates to commuter campers. Call or write for brochure.

OHIO UNIVERSITY SWIMMING CAMP

June 16-21, June 23-28

Ohio University Swimming Camp
Workshops Office
Memorial Auditorium
Ohio University
Athens, OH 45701
614-593-1613, 614-593-1776

The Ohio University Swimming Camp offers a well-integrated program that is organized to assist a full range of competitive swimmers. The elements of the program include long course conditioning (we will send you home in shape) and short course work, with concentration on stroke mechanics. Extensive individual attention brings out the best effort and performance from each swimmer. The Ohio University varsity swimming staff bring to the camp their coaching talent and experience in working with national- and Olympic-caliber athletes. Each of the full-time university staff members will be at every practice to work with all campers. Additional camp staff is made up of active coaches with extensive USS, YMCA, high school and college experience, plus outstanding swimmers with a genuine interest in developing the potential of a wide range of swimmers. It may be impossible to find a more qualified or enthusiastic camp staff anywhere. Each swimmer will be videotaped so that both the swimmer and the coach may analyze and critique each of the competitive strokes. An appropriate and diversified amount of rest and recreation is included to make for a total and balanced experience on one of the most aesthetically pleasant college campus environments in the country. Ages 10 and up. Cost: \$235 per week resident (\$455 for both weeks), \$165 per week day camper. Registration received before April 30 will receive a \$15 discount.

OREGON SWIM CAMP

June 16-21, June 23-27, July 7-12

Oregon Swim Camp
1608 Harbor Drive
Springfield, OR 97477
503-746-2286

Eugene, Oregon. \$305 includes University of Oregon housing, meals, coaching, camp shirt, Camp Training Log and workbook, entertainment, videotaping and special activities. Each camp is jam-packed with 2-3 daily water trainings, classroom film and self-video analyses, land programs for strength development, daily classroom and swimming workbook sessions, and ends with an Oregon Swim Camp Championships and Awards Banquet. A fun-filled schedule for a week of being under the tutelage of Master Coaches Dr. Don and Virginia Van Rossen. The Van Rossens have over 80 years of combined experience of producing successful swimmers with a winning and wholesome philosophy. The camp emphasizes the Van Rossen Four Wave System for successful skill development, scientific training, mental preparation and balancing of social and living schedules. This program has been developed with over 40 years of working with the developing champion. Early registration is advised due to popularity and limited enrollment.

PINE CREST SWIM CAMP

June 9-August 10

Gary T. Butts
Pine Crest Swim Camp
1501 NE 62nd Street
Fort Lauderdale, FL 33334
305-492-4173, 305-492-4169 (fax)

Fort Lauderdale, Fla. Camp director: Gary T. Butts. Designed for boys and girls ages 8-18. Swimmers will live in fully-supervised, air-conditioned boys and girls dormitories on Pine Crest's campus. Facilities include one 50-meter pool, two 25-yard pools, Nautilus training center, training room and infirmary (full-time nurses). There will be 2-3 water workouts each day, long course and short course. A one-hour stroke class will be held each day for all campers. Color video filming of all swimmers along with a written critique. Strength building course includes use of Pine Crest's Nautilus training center. Free airport pickup, full-time activities director with trips to Disney World, skin diving and deep sea fishing trips. Mental training course conducted by outstanding sports psychologists. Minimum of two weeks at camp. Costs: any two weeks, \$375 per week; 3-5 weeks, \$350 per week; 6-9 weeks, \$325 per week. See display ad page 5.

ROCKY MOUNTAIN TRAINING CAMP

June 2-7 and June 9-14 (stroke training camp)
June 15-20 (altitude training camp)

Rocky Mountain Stroke & Altitude Training Camps
Department of Athletics—Swimming
Colorado State University
Fort Collins, CO 80523
303-491-6026

Two stroke and training camps will be held for swimmers ages 9-17 (1991 graduates excluded due to NCAA regulations). Camp directors: John Mattos, head coach, Colorado State University; and Cathy

Bujorian, assistant coach. The stroke and training camp is designed to assist swimmers in developing the mental and physical skills necessary to improve training and performance. Daily activities will include one dryland and water training session, one stroke technique session with underwater videotape analysis, mental training for maximizing performance, nutrition education, start/turn/race strategy improvement and limited, but organized, free time activities. Campers will be supervised on a 1:10 ratio. Cost: \$285 for residents, \$185 for commuters. In addition, one intensive Altitude Training Camp will be held for swimmers ages 12-17. Many international, club and collegiate coaches have brought their swimmers to Colorado's high country to train at altitude with the objective to improve sea level performance. Research from the Sports Medicine and Science Center in Colorado Springs indicates that controlled altitude training improves VO2max, swimming economy and lactate response curves, with proven results for end-of-the-season performances. Two training sessions and one dryland session per day for 24 swimmers, including minimal stroke analysis, nutrition education and individualized mental training programs. Training can be tailored for those swimmers preparing for national meets, and complete summaries of training will be given to swimmers for their home coaches. Cost: \$500.

SAINT EDWARD'S SCHOOL

April 2-6

Steve Fenning

St. Edward's Swim Camp
St. Edward's Drive
Vero Beach, FL 32963
407-231-7048, 800-926-5967 (travel department)

Saint Edward's School Swim Camp is located in beautiful Vero Beach, Fla., situated on a barrier reef between the Indian River and the Atlantic Ocean. Swimmers and chaperones will be housed in Days Inn Resort beachfront hotel with shuttle service to campus. The first Spring Break Swim Camp, held in April 1990, was a major success. Swimmers from New York and New Jersey attended as well as local age group and masters swimmers. Camp emphasis is on strokes and skills. This year will also include sessions in mental training headed by a nationally prominent sports psychologist. A world-class coaching staff including Steve Fenning, aquatics director, and Michelle Amen, 1980 U.S. Olympic international team, as well as Olympic trainer Rosemary Hinton will head the camp. Nationally prominent Florida guest coaches will also attend. Facilities include 8-lane, 25-yard by 6-lane, 25-meter headed (83") pool, lockers and showers, classroom with projection television, weight and training rooms including swim bench, Vasa, aerobic bicycles, full Universals, free weights and specialized weight machines. Special equipment included are Coach Scope, underwater mirrors and Super Swims. Recreation activities include a trip to Dodgertown, an Orlando attraction, beach time, water sports on campus at our waterfront dock and beach. Other features include souvenirs, take-home video, individual sessions with coaching staff, meals, speed/skill meet, take-home stroke analysis chart. Contact our Travel Department to make travel arrangements and discount rates. Delta is our official airline. See display ad page 58.

ST. LAWRENCE SWIMMING SCHOOL

June 23-28, June 30-July 5, July 7-12

St. Lawrence University
Canton, NY 13617
315-379-5232

St. Lawrence Swimming School provides participants with two in-pool training clinics each day to learn techniques and strategies from an exceptional coaching staff with national or international experience. The clinicians include several of the top collegiate Division I coaches noted for their complete development of the athlete from initial recruitment to a nationally recognized performance level. Psychological approaches to training and competition and dryland conditioning are included to create a well-rounded, highly effective learning experience. St. Lawrence Swimming School promises participants a rich and supportive learning environment that will maximize skill and knowledge acquisition. Beyond the comprehensive instructional programs, participants in the summer sports school have access to one of the most outstanding sport and recreational facilities in the country. Augsbury Physical Education Center houses gymnasiums, a swimming pool and squash courts. The adjoining Leithead Field House has an indoor running track, an artificial turf playing surface and tennis court. Playing fields and tennis courts surround the facility. Write or call for literature.

STANFORD SWIMMING CAMP

June 22-27, June 29-July 4, July 6-11, July 13-18,
July 20-25
June 17-20 (half-day camp)

Stanford Swim Camp

Department of Athletics
Stanford University
Stanford, CA 94305-6150
415-323-2936

Olympic and NCAA championship team coaches Richard Quick and Skip Kenney direct this highly instructional competitive swimming camp. Their full attendance combined with over 50 years of coaching experience is focused on each camper. The camp is offered to boys and girls ages 9-17 (no graduating high school seniors). All prospective campers must be registered with U.S. Swimming. Registration forms available upon request. Stanford University, conveniently located 40 miles south of San Francisco, between the Pacific Ocean and San Francisco Bay, will be providing their top-rated facilities as well as the meals and housing. There are five six-day camps. Features of the six-day camp include (1) dryland exercises including stretching, (2) video analysis or all competitive strokes, turns and starts, (3) training sessions for conditioning aimed at promoting both good stroke and work ethics, (4) full 24-hour supervision, (5) planned extracurricular activities, (6) handouts of stretching and stroke drills, (7) lectures on nutrition, sports medicine and training physiology, (8) opportunity to purchase Swim Smarter, Swim Faster, a video that includes most of the drills learned in camp, and (9) souvenirs of their camp experience. In addition to the six-day camps, we offer a half-day camp which features analysis of one competitive stroke each day. Half-day camp is 9:30-11:30 a.m. Cost: \$450 per week resident camper, \$325 per week day camper, \$150 per week half-day camper. \$200 deposit by May 1, balance due by June 1. Free Stanford Swimming T-shirt for early applicants. See display ad page 52.

TOTAL IMMERSION ADULT INSTRUCTIONAL CAMPS

May 31-June 4 (William & Mary, VA)
June 7-11 (Appalachian State, NC)
June 21-25, June 28-July 2 (Colgate Univ., NY)
July 11-15 (Williams College, MA)
Aug. 8-12 (Wright State Univ., OH)

Terry Laughlin

Total Immersion
381 Main St.
Goshen, NY 10924
516-294-3528; 914-294-3510

If you love swimming and want to become a better, smarter swimmer while enjoying a memorable vacation, then Total Immersion is for you. The Total Immersion concept is designed to give Masters, fitness swimmers and triathletes all the tools they need to design a personalized swim training program and to enjoy their swimming more. Free time is ample and campers enjoy access to all college facilities (library, tennis courts, golf course, weight room cultural offerings). Features: Four hours of instruction each day in stroke drills, stroke technique and cardiovascular conditioning; daily discussions on exercise physiology, workout design, efficient stroke technique, race strategy, nutrition, strength development, tapering for competition and video stroke analysis of each swimmer. Private room in college dorm with all bedding and linens and all-you-can-eat training table meals in modern dining hall. Each camper also receives a personal training manual with training guidelines and strategies, workout "recipes," stroke drills and a checklist of technical points to work on—a print record of your experiences and an invaluable how-to guide that you'll refer to again and again. Limited enrollment—\$450/week resident campers, \$375 day campers, \$250 non-participating spouse or guest (includes all meals, accommodations and use of all college facilities). Camp director Terry Laughlin coaches age group and Masters swimmers at Hofstra University on Long Island and is a popular clinic speaker. All TI assistant directors are certified coaches with extensive experience coaching adults. Write or call for information.

TOTAL PERFORMANCE SWIMMING CAMP

June 9-14, June 16-21

Total Performance Swimming Camp

P.O. Box 410
Kenyon College
Gambier, OH 43022
614-427-4009

Directed by Jim Steen, head coach of the Kenyon Lords and Ladies, the 11-time men's national champion and the seven-time women's national champions in NCAA Division III. In his 15 years at Kenyon his motivational techniques helped produce over 75 NCAA champions and over 250 All-Americans. The camp stresses all aspects of swimming performance amidst excellent facilities with around-the-clock supervision. The daily schedule includes two water workouts, an introduction to strength and flexibility exercises, a stroke development clinic with videotaping and special lectures by leading clinicians. At the close of the camp session, each camper will take home his/her personal videotape complete with stroke corrections and suggestions. Two one-week sessions will be offered for boys and girls ages 10-17. Come to Total Performance Swimming Camp where you learn to think and swim like a champion!

UCI SWIM CAMPS

Saturday sessions

Ages 7-12: April 20 (all strokes)
Ages 9-17: April 27 (free), May 4 (breast), May 11 (back), May 18 (fly)
Summer session: August 17-23

Charlie Schober

UCI Swim Camps
Crawford Hall
University of California, Irvine
Irvine, CA 92717
714-856-6936

Summer Swim Camp is held at the beautiful UC Irvine Campus in sunny Southern California. The UCI Swim Camps promote a high-quality stroke analysis and technique camp without grueling long yardage, conditioning workouts. The UCI camps are specifically designed so that each swimmer receives maximum one-on-one attention from a qualified coach or counselor on stroke analysis, technique development, starts and turns. Video analysis and instruction will be recorded from underwater and will be given to each swimmer for convenient, year-round viewing. Charlie Schober and Dan Lockhart have enjoyed coaching age group and senior swimmers for a combined total of over 30 years. Their teams have shown continuous growth and improvement under their direction. Their pleasant and patient teaching attitude creates an enjoyable learning experience for all involved in the program. Camp features include: over four hours of personal stroke instruction each day; informative lectures by top stroke analysis coaches; resident and day camp opportunities available; 24-hour per day adult supervision; camp dorms, cafeteria and rec facilities included; group discounts available; swimmers ages 9-17. Limited to first 60 who register for each session. Costs: If paid before July 1—resident \$325, day camp \$225. If paid after July 1—resident \$350, day camp \$245. Cost for Saturday sessions: 1 session, \$55; 2 sessions, \$85; 3 sessions, \$115; 4 sessions, \$145; 5 sessions, \$180. Write or call for literature.

UNIVERSITY OF SAN DIEGO COMPETITIVE SWIM CAMP

June 16-July 26

USD Gary Becker Competitive Swim Camp

University of San Diego
Alcala Park
San Diego, CA 92110
619-260-4593

Now in our 13th year of offering an informative, fun and individual developmental swim camp. The goal of the camp is to help competitive swimmers at all levels to gain the information and stroke work needed for self improvement. The latest trends and techniques in swimming are discussed and demonstrated. Stroke correction is achieved through videotaping, review of films of world-class swimmers, dryland work, in-water skill correction and drills for reinforcement. Conditioning is maintained through motivational pool workouts, long-distance bay or ocean swims, dryland and weight workouts. Kids share the enjoyment of evening recreational activities such as beach barbecues, roller skating and movies. The camp attracts swimmers as well as coaches from across the country and around the world, enhancing the camp experience. In addition to the competitive training camp, an "all new" racing camp will be offered this summer to qualified swimmers. Stroke refinement, race pacing and racing strategy are highlighted. One- and two-week sessions are available. Emphasis in the second week of two-week camp is on race strategy and conditioning. One-week campers have the option of selecting the "Racing Camp" format during designated weeks. On-campus living is in clean, supervised dorms. Balanced meals are served in the university cafeteria, and all USD recreational facilities are available to the campers. Our 12-lane, 25-yard pool is excellent for instruction and training. One-week resident cost is \$340, \$245 for commuters. USD prides itself in offering safe, fun and informative camps. See display ad page 51.

USC TROJAN SWIM CAMP

June 16-July 5

USC Trojan Swim Camp

Kennedy Aquatic Center
University of Southern California
Los Angeles, CA 90089-2511
213-740-8451 (office); 213-740-6177 (fax)

Three outstanding coaches—Olympic and NCAA championship coach Peter Daland, head coach of highly-ranked USC women's team Darrell Fick, and four-time world record holder and current American record holder "Sippy" Woodhead-Kantzer head the staff at the world-renowned McDonald's Olympic Swim Stadium on the campus of the University of Southern California. Site of the 1984 Olympic Games, 1989 Phillips 66 USS Swimming Championships and the 1991 Olympic Sports Festival, swimmers are guaranteed a highly instructional and motivating experience while living in the same accommodations as the 1984 USA Olympic swim team. Ability groupings for more individual instruction along with an elite training group for those who qualify. Three one-week sessions. Dryland training, nutritional analysis and sports psychology sessions will be given along with complete video analysis of all strokes. A great staff with 24-hour supervision and planned extracurricular activities. Special camp airfares, airport service, special meals and the beautiful USC campus along with coaches who care about the details that can make a difference for all ability levels, ages 9-17. Cost \$425 per week resident camper, \$300 per week day camper. Special two-week packages available. See display ad page 53.

CAMP WEKEELA FOR BOYS AND GIRLS

June 24-August 18 (four or eight weeks only)

Eric and Lauren Scoblionko

Camp Wekeela for Boys and Girls
130 S. Merkle Road
Columbus, OH 43209
614-235-3177, 614-235-3619 (fax)

Route 219 in Canton, Maine. Rapidly gaining a reputation as one of the finest summer camps for boys and girls 6-16. Camp Wekeela is more than a complete experience, encompassing 65 activities plus frequent regional and Canadian trips. Wekeela offers a comprehensive competitive swimming program, endorsed by award-winning Mercersburg Academy and enhanced with a visiting coach program staffed by University of Tennessee Head Coach John Trembley, the University of Pennsylvania's Head Coach Kathy Lawlor and C. Rob Orr, Head Coach at Princeton University. Wekeela's facilities include a 1500-foot white sandy beach bordering pristine Bear Pond. The waterfront includes a massive floating dock with fourteen 25-yard swim lanes, state-of-the-art timers, daily workouts and frequent intercamp competitions with neighboring camps. Other offerings include SCUBA, waterskiing, sailing, windsurfing, canoeing, white water rafting and water polo. An outstanding tennis program with USTA instruction complements Wekeela's well-rounded electives. A gymnasium with indoor and outdoor basketball courts, soccer fields, softball, gymnastics, European team handball, lacrosse fields, field hockey and golf are available as well. A complete performing and creative arts staff makes a variety of pursuits possible. Trips to Cape Cod, Maine's rivers and beaches, New Hampshire's White Mountains and Quebec City round out the program

for one of America's most innovative and unique camps. Campers may come for four or eight weeks only. The all-inclusive fee for four weeks is \$2700 and for eight weeks \$4500. See display ad page 57.

WISCONSIN/MINNESOTA SWIM CAMPS

Camp start dates: June 9, 16, 23; July 7, 21; August 4, 11

Wisconsin/Minnesota Sports Camps, Inc.

468 Lac La Belle Drive
Oconomowoc, WI 53066
800-558-0428

Our 15th year of running competitive swim camps for boys and girls ages 7-18. Emphasis is totally on stroke mechanics, starts, turns and relay exchanges. Videotaping, individual instruction, stroke lectures, films, flexibility and strength training will be done. In addition, pace and interval training will be introduced. All campers will be individually videotaped and evaluated by his/her coach each day and given the tape at the end of the week. A Stroke Analysis Booklet will be given to each camper with his/her coach's personal evaluation. This booklet will also contain information on strokes, diet, weight training, flexibility and stroke drills. Campers receive 24-hour supervision by the entire staff. Our camper to staff ratio is 10:1. We have a staff of 30 coaches and a dozen counselors working at our ten different camps. Canoeing, biking and a Thursday evening mini-marathon are featured at our Green Lake camps. Cost varies from \$210 to \$335 per camper. Special group rates are available through April 30.

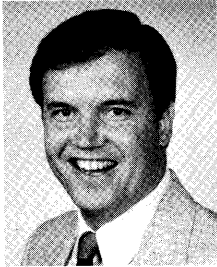
WOLVERINE SWIM CAMP

June 9-14, June 16-21, July 7-12, July 14-19

Wolverine Swim Camps

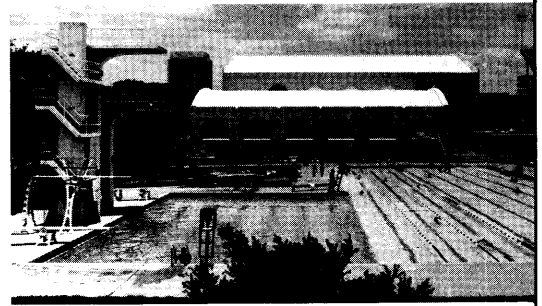
8160 Valley View Dr.
Ypsilanti, MI 48197
313-484-4779

Swimmers ages 9-17 who want to learn the secrets behind the highly successful University of Michigan technique and training programs are invited to apply for admission. The wave breaststroke, the T-30, lactate predictor sets, threshold and super-threshold training sets are a few of the state-of-the-art concepts each swimmer will be exposed to. Four sessions are limited to 150 campers per session. A staff of 25, and three instructional sessions per day, insures the individual attention necessary for significant performance and technique improvements. Head Coaches Jon Urbanchek and Jim Richardson are on deck and are directly involved in the coaching and training of all campers at every session. Each camper is filmed daily and strokes, starts and turns are analyzed using the new Sony Caddy Cam high-speed video analysis system. An intensive training option is available for those who qualify. Swimmers will receive a computer analysis of prescribed training velocities. A comprehensive technique development tract is available for the swimmer in need of skill acquisition. Our world class staff is dedicated to providing the kind of leadership and companionship which is designed to encourage each swimmer to strive for the "higher things" both in and out of the pool. Cost: \$300 week, includes instruction, swim cap, T-shirt, group color photo, videotape, instructional printed material, and room and board; \$200 week day camper fee includes all of the above less room and board. See display ad page 53.



MEL NASH
 Texas A&M University
 Head Coach, Men/Women
 Coach of Goodwill and Pan
 Am Gold Medalists
 Southwest Conference Coach
 of the Year
 Former Pan Am and World
 Champion
 Masters World Record Holder

AGGIE SWIM CAMP at TEXAS A&M UNIVERSITY



Two Sessions
 June 23-June 28
 June 30-July 5
 Girls and Boys ages 8-17
 Cost \$325.00

- ★ Beautiful campus...Air conditioned dorms...Great Food.
- ★ Facilities...Outdoor 8-lane 50-meter and 6-lane 25-yard pool
Indoor 8-lane 25-yard pool
- ★ Excellent coach to swimmer ratio: approximately 1:6
- ★ Maintain conditioning with two daily water workouts
- ★ Learn new techniques to improve starts, turns and race strategy
- ★ Take home your own videotape with underwater and above water views of your stroke
- ★ Emphasis on stroke instruction, conditioning, mental preparation
- ★ Limited enrollment insures maximum one-on-one instruction.

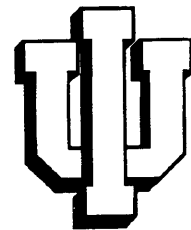
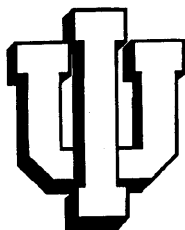
Come be an Aggie for a week!

Information: Carol or Mel Nash, Aggie Swim Camp, Athletic Department,
 Texas A&M University, College Station, TX 77843
 (409) 845-5545 office or (409) 693-6761 home

(College/University Affiliated Swimming Camp)

COUNCILMAN STROKE ANALYSIS CLINIC

**INDIANA UNIVERSITY
AQUATIC FACILITIES**



**Six weekly sessions, beginning
 JUNE 2, JUNE 9, JUNE 16, JUNE 23, JULY 7, JULY 14
 \$350.00 per session**

Ages 9 and up—graduated high school seniors not eligible (NCAA rule). Each participant takes home a stroke analysis critique booklet. Swimmers live in a university dormitory, fully supervised by head counselor and staff. Ratio of staff to swimmers is one to ten. Kris Kirchner, I.U. Men's Swim Coach and Chet Jastremski, M.D., I.U. Women's Swim Coach will be in full attendance at each session. Doc Councilman will provide the lecture sessions.

**Strength
Evaluation**

**Two Daily Training
Sessions**

**All Strokes
Video-Taped**

**Work on Starts
and Turns**

**SPECIAL SESSIONS FOR
 TRIATHLETES AND MASTERS ARE:
 MAY 30-JUNE 1
 JUNE 30-JULY 3**

Write for application and brochure:
COUNCILMAN STROKE ANALYSIS CLINIC
 424 Meadowbrook Ave.
 Bloomington, IN 47401
 (812) 339-8206

LONGHORN

MARK SCHUBERT
60 USS National team titles,
U.S. Olympic Coach 1980, '84, '88,
NCAA Team Championship 1990



- *Internationally known coaches
- *World-renowned facilities — the Texas Swimming Center
- *Concentrated instruction in all phases of competitive swimming for ages 9-17
- *Elite training sessions for those who qualify
- *Ability groupings for all levels

7 week-long sessions
from June 2 to July 19
\$400 per session

For more information, call or write:
Longhorn Swim Camp,
Ann McIntosh, Director
1900 East Campus Drive,
Austin, TX 78705.
(512) 471-1974 or 327-5550 evenings

EDDIE REESE
NCAA Team Championship
1981, '88, '89, '90,
Pan Am Coach '87,
Olympic Coach '88



the university of texas

**13th
Great Year**

Competitive Swim Camp 1991

For Boys and Girls Ages 8-17

Gary Becker
Camp Director

COMPETITIVE TRAINING CAMP

Stroke Correction
Dry Land Work
Recreational Activities
Ocean and Bay Swims

"All New" RACING CAMP

Stroke Refinement
Race pacing
Racing strategy
Mental preparation

One Week Camps

June 16-21
*June 23-28
June 30-July 5
*July 7-12
July 14-19
*July 21-26

Two Week Camp

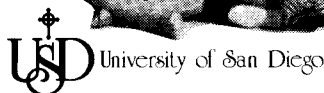
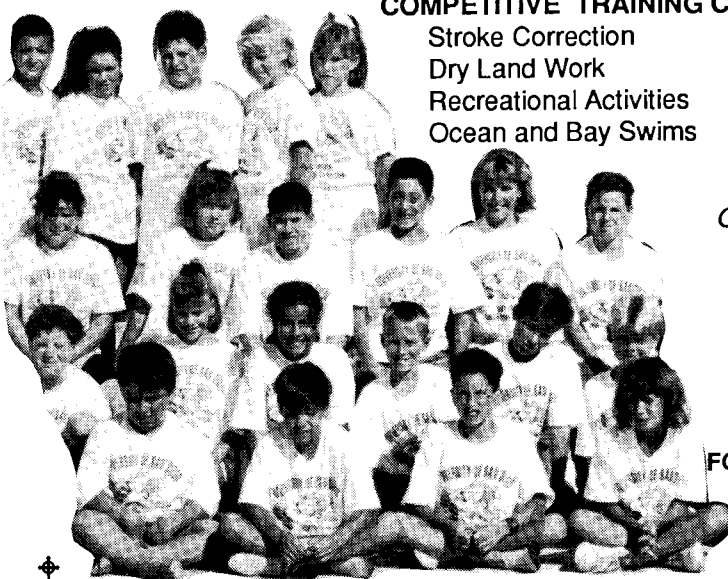
June 16-28
June 30-July 12
July 14-26

Camp Fees

\$340 Per Week
\$245 Day Campers

FOR A FREE BROCHURE....

Write: University of San Diego Swim Camp
Sports Center, Alcalá Park, San Diego, CA 92110
Or Call: 619/260-4593



Note: Second week of Two week camp follows Racing Camp format for qualified swimmers.
*Indicates One week camp that give swimmers option to enroll in Racing Camp.



"Gold Medal Fun"

TERRY SCHROEDER'S ALOE-UP SWIM & WATER POLO CAMP



Terry Schroeder, Head Water Polo
Coach Pepperdine University and 3-
Time Olympian

For additional details
and brochure, write
or call:
ALOE-UP SWIM & WATER POLO CAMP
DEPT. OF ATHLETICS
PEPPERDINE UNIVERSITY
MALIBU, CA 90263
OR CALL (213) 456-4000 X 6533

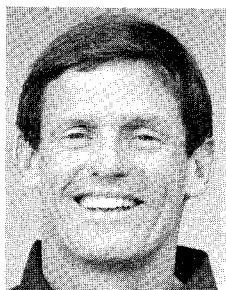


PEPPERDINE UNIVERSITY, MALIBU, CA
SITE OF 1984 OLYMPIC WATER POLO COMPETITION

JUNE 15-20
JUNE 22-27
\$430.00 resident
\$305.00 day
AGES 8-17
(grades 4-11)

**HAVE FUN, AND LEARN FROM THE BEST,
IN THE MOST BEAUTIFUL SETTING FOR A
SWIM AND WATER POLO CAMP IN THE WORLD.**

(College/University Affiliated Swimming Camp)



RICHARD QUICK
1988 Head Olympic Coach
Six NCAA Team Championships

Boys and Girls Ages 9-17

Planned Extra Activities

5 Camp Sessions

June 22-27 July 13-18
June 29-July 4 July 20-25
July 6-11

Half Day Camp

June 17-20 9:30-11:30 a.m.
Features analysis of one stroke
per day

COST

Resident \$450/WEEK
Day-Camper \$325/WEEK
Half-Day Camps \$150/WEEK

STANFORD SWIM CAMPS

AGE GROUP & MASTERS



SKIP KENNEY
1984/1988 Assistant Olympic Coach
Three NCAA Team Championships

- Full Attendance by World Renowned Staff
- Experience the Stanford University Environment
- DeGuerre Pool Complex—8 Lane
- 25 yard pool and 10 Lane 50 meter pool
- Emphasis on Stroke Correction and Drills
- Video Review Sessions
- Elite Training Sessions for those who Qualify

For More Information or Application Call or Write:
SWIM CAMP DIRECTOR • (415) 323-2936
Department of Athletics • Stanford University, Stanford, CA 94305-6150
Apply Soon . . . sessions fill early

Masters & Triathletes Ages 20 and Up

Schedule allows for vacationing

JUNE 8-13, 1991

San Francisco . . .
Sausalito . . .
Wine Country . . .
Monterey . . .
Beaches

\$325/WEEK



JON URBANCHEK
ASCA Coach of the Year 1990
Michigan Men's Coach
Big Ten Champions '86-'89
NCAA Top Ten '86-'89
Big Ten Coach of the Year

1991 WOLVERINE SWIM CAMP

Ages 9-17



JIM RICHARDSON
Michigan Women's Coach
Big Ten Champions '87-'89
NCAA Top Ten '87-'89
Big Ten Coach of the Year

THE UNIVERSITY OF MICHIGAN

4 Sessions:

JUNE 9 - 14 JULY 7 - 12

JUNE 16 - 21 JULY 14 - 19

COST: RESIDENT — \$300/WK

DAY CAMPER — \$200/WK

2 POOLS, NEW 50 METER TRAINING COMPLEX

INTENSIVE TRAINING OPTION AVAILABLE

3 INSTRUCTIONAL/TECHNIQUE SESSIONS PER DAY

DAILY INDIVIDUAL FILMING AND STROKE ANALYSIS

HEAD COACHES INSTRUCT AT ALL SESSIONS

For More Information Call or Write:

WOLVERINE SWIM CAMP DIRECTOR — 8160 VALLEY VIEW DR.

YPSILANTI, MI 48197 — 313-484-4779

(College/University Affiliated Swimming Camp)

CAMP SESSIONS

I JUNE 16-21

II JUNE 23-28

III JUNE 30-JULY 5

COST

Resident Camper \$425/week

Day Camper \$300/week

SPECIAL 2-week \$925/week

For more information or
application/call or write

213-740-8451

TROJAN SWIM CAMP

**Kennedy Athletic Center
University of Southern California
Los Angeles, CA 90089-2511**



1991 U.S.C. TROJAN SWIM CAMP

UNIVERSITY OF SOUTHERN CALIFORNIA

LOS ANGELES, CALIFORNIA

Home of:

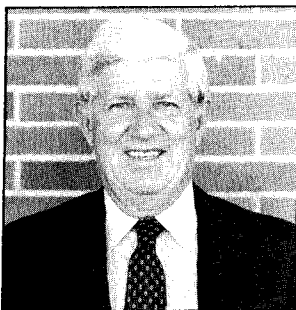
1984 OLYMPIC GAMES

1989 SENIOR LONG COURSE NATIONALS

1991 U.S. OLYMPIC SPORTS FESTIVAL

CAMP FEATURES

- ★ Complete video analysis using the finest equipment
- ★ Swimmers stay in 1984 OLYMPIC VILLAGE!!
- ★ Elite training sessions for those who qualify
- ★ Special air fares to Los Angeles!!
- ★ Individual **one-on-one** instruction in all phases
- ★ All level swimmers welcome—Ages 9-17
- ★ Dryland, nutritional and sports psychology sessions
- ★ Highly qualified experienced coaches and counselors



PETER DALAND
NINE NCAA TITLES—U.S.C.



DARRELL FICK
HEAD WOMEN'S COACH—U.S.C.



"SIPPY" WOODHEAD-KANTZER
4 WORLD RECORDS—
18 AMERICAN RECORDS

Elite Age Group

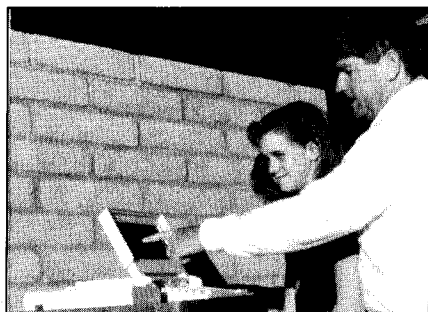


Stroke Specialty Swim Camps

Girls and Boys Ages 9 & Over

"The ASR Stroke Specialty Swim Camp brings together great young stroke swimmers for some outstanding workouts, learning experiences and lots of fun! You will create competitive friendships with swimmers from around the country with the same national level objectives as yours. Motivation for the future through friendships of the future! Come join us in the fun!"

Bob Gillett—
ASR Owner and Swim Coach



Swim coach Bob Gillett and 13 year old Jr. National Qualifier, Stephanie LaFrance review a Computer Assisted Race Evaluation. This system identifies which variables and how much they need to be modified for faster swimming. This is especially helpful to young swimmers approaching their first Jr. National Cut Times!

- **Stroke Specific Workouts—
2 per Day**
- **Limited Camp Size—
Only 32 Swimmers**
- **Video Taping using the
"ASR Swimming
Chalkboard"**
- **Daily Stroke Session**
- **Computer Assisted
Race Evaluation!!**
- **Unique "Flex-Lane"
Training**
- **50 Meter X 25 Yard
Pool—No Limitations**
- **Great Age Group
Lecture "Short Talks"
Series**
- **"How They Swim It"
Video Review Sessions**
- **Other Recreational
Sports**
- **Other activities:
western cookout night,
river tubing, game boy &
nintendo tournaments**

\$400 A Week, 1 or 2 Week Sessions Availab.

Breaststroke

June 2-9, 9-16

Butterfly

June 30-July 7, 7-14

Freestyle

June 16-23, 23-30

Backstroke

July 14-21, 21-28

Individual

Medley

July 28-August 4-11

Fly-To-Camp



1/2 Price Airline Tickets

from any of our ASR
America West GateWay Cities!
Limited number. Some
restriction s apply.

Visa or MasterCard
accepted

1-602-569-1457

1-800-TEL-SWIM

1-800-835-7946

(Including Canada)

☐ YES! Send me more information

☐ YES! Send me an application

ARIZONA 
SPORTS RANCH
CLUB AND TRAINING CENTER

Name _____ Age _____

Address _____

Phone Number _____

I Am Interested in the following:

☐ Freestyle ☐ Butterfly ☐ Backstroke ☐ Individual Medly

Mail to: Arizona Sports Ranch Training Center, 19232 N. 38th Street, Phoenix, AZ 85024

2:34.55 Mary Ellen Blanchard, USA
2:34.64 Gabella Csepe, HUN
2:38.23 Malene Mantzius, DEN
2:39.90 Kira Bulten, HOL
2:40.81 Nancy Goossens, BEL
2:41.56 Nancy Arendt, LUX
2:41.95 Irit Efrati, ISR
2:45.44 Maya Nasution, INA
2:53.45 Barbara Pexa, GUM
2:55.82 Tammie Kae, GUM

100 BUTTERFLY

Championship Finals—Jan. 11

59.68 Qian Hong, CHN
59.81 Wang Xiaohong, CHN
59.88 Catherine Plewinski, FRA
59.96 C. Ahmann-Leighton, USA
1:00.54 Julia Gorman, USA
1:00.54 Susan O'Neill, AUS
1:01.14 Yoko Kando, JPN
1:01.64 Inge De Bruijn, HOL

Consolation Finals—Jan. 11

1:01.79 Rie Shito, JPN
1:01.94 Ilaria Tocchini, ITA
1:02.06 Karin Brienese, HOL
1:02.25 Leah Broderick, AUS
1:02.26 Madeleine Campbell, GBR
1:02.45 Mette Jacobsen, DEN
1:02.68 Jacqueline Delord, FRA
1:02.91 Katrin Jaeke, GER

Prelims—Jan. 11

59.91 Catherine Plewinski, FRA
1:00.72 C. Ahmann-Leighton, USA
1:00.87 Qian Hong, CHN
1:01.30 Wang Xiaohong, CHN
1:01.36 Julia Gorman, USA
1:01.40 Yoko Kando, JPN
1:01.58 Inge De Bruijn, HOL
1:01.74 Susan O'Neill, AUS
1:01.75 Madeleine Campbell, GBR
1:01.79 Karin Brienese, HOL
1:01.84 Jacqueline Delord, FRA
1:02.16 Leah Broderick, AUS
1:02.21 Rie Shito, JPN
1:02.25 Ilaria Tocchini, ITA
1:02.71 Katrin Jaeke, GER
1:02.82 Mette Jacobsen, DEN
1:02.99 Christiane Sievert, GER
1:03.47 Therese Lundin, SWE
1:03.59 Maria Fernandez, ESP
1:04.11 Gabriela Gaja, MEX
1:04.18 Natalia Yakovleva, URS
1:04.43 Timea Toth, ISR

1:05.17 Berit Puggaard, DEN
1:05.26 Natasa Meskova, YUG
1:05.35 Anika Nilsson, SWE
1:05.49 Corina Dumitru, ROM
1:05.53 Joana Isabel Arantes, POR
1:05.57 Elisavet Roussaki, GRE
1:05.75 Maria Urbina, MEX
1:05.89 Marion Madine, IRL
1:06.02 Hadwijaja Listiyani, INA
1:06.42 Elifira Nasution, INA
1:07.93 Anne Bonvoisin, BEL

200 BUTTERFLY

Championship Finals—Jan. 13

2:09.24 Summer Sanders, USA
2:11.06 Rie Shito, JPN
2:11.09 Hayley Lewis, AUS
2:11.71 Helen Morris, AUS
2:11.88 Mette Jacobsen, DEN
2:12.12 Yoko Kando, JPN
2:14.69 Susanne Mueller, GER
2:14.81 Ilaria Tocchini, ITA

Consolation Finals—Jan. 13

2:13.24 Trina Radke, USA
2:16.49 Cecile Jeanson, FRA
2:16.49 Leah Broderick, AUS
2:17.35 Maria Fernandez, ESP
2:17.36 Corina Dumitru, ROM
2:17.37 Katrin Jaeke, GER
2:18.12 Natasa Meskova, YUG
2:18.58 Joana Isabel Arantes, POR

Prelims—Jan. 13

2:11.25 Rie Shito, JPN
2:13.05 Helen Morris, AUS
2:13.54 Hayley Lewis, AUS
2:13.92 Yoko Kando, JPN
2:13.93 Summer Sanders, USA
2:14.56 Ilaria Tocchini, ITA
2:14.62 Mette Jacobsen, DEN
2:15.10 Susanne Mueller, GER
2:15.28 Maria Fernandez, ESP
2:15.57 Trina Radke, USA
2:16.65 Wang Xiaohong, CHN
2:16.63 Berit Puggaard, DEN
2:16.95 Corina Dumitru, ROM
2:17.32 Katrin Jaeke, GER
2:17.41 Joana Isabel Arantes, POR
2:17.41 Cecile Jeanson, FRA
2:17.91 Therese Lundin, SWE
2:18.11 Natasa Meskova, YUG
2:18.31 Natalia Yakovleva, URS
2:18.44 Qian Hong, CHN
2:19.78 Philippa Langrell, NZL

2:19.81 Madeleine Campbell, GBR
2:19.86 Elisavet Roussaki, GRE
2:20.11 Lorenza Munoz, MEX
2:20.36 Marion Madine, IRL
2:20.83 Timea Toth, ISR
2:22.28 Maria Urbina, MEX
2:27.63 Panagiot Pouloupoulou, GRE

200 INDIVIDUAL MEDLEY

Championship Finals—Jan. 12

2:13.40 Lin Li, CHN
2:14.06 Summer Sanders, USA
2:16.16 Daniela Hunger, GER
2:16.23 Ellinora Overton, AUS
2:16.69 Mary Ellen Blanchard, USA
2:16.80 Marianne Muis, HOL
2:17.58 Svenja Schlicht, GER
2:18.27 Mildred Muis, HOL

Consolation Finals—Jan. 12

2:16.71 Marianne Limpert, CAN
2:18.52 Nancy Sweetnam, CAN
2:19.11 Eri Kimura, JPN
2:19.33 Zara Long, GBR
2:19.70 Beatrice Coada, ROM
2:20.28 Ana Petricevic, YUG
2:21.13 Leah Broderick, AUS
2:21.87 Fumie Kuratori, JPN

Prelims—Jan. 12

2:15.88 Summer Sanders, USA
2:17.23 Ellinora Overton, AUS
2:17.82 Mary Ellen Blanchard, USA
2:17.84 Daniela Hunger, GER
2:18.02 Lin Li, CHN
2:18.02 Mildred Muis, HOL
2:18.22 Marianne Muis, HOL
2:18.32 Svenja Schlicht, GER
2:18.95 Nancy Sweetnam, CAN
2:19.39 Marianne Limpert, CAN
2:20.47 Leah Broderick, AUS
2:20.48 Zara Long, GBR
2:20.97 Eri Kimura, JPN
2:21.07 Fumie Kuratori, JPN
2:21.72 Beatrice Coada, ROM
2:22.45 Ana Petricevic, YUG
2:22.55 Helena Kalvehed, SWE
2:23.14 Brigitte Becue, BEL
2:23.52 Malin Gustavsson, SWE
2:24.31 Lorenza Munoz, MEX
2:25.43 Annette Poulsen, DEN
2:25.75 Maya Nasution, INA
2:25.82 Elifira Nasution, INA
2:27.00 Sandra Cam, BEL
2:31.07 Panagiot Pouloupoulou, GRE

2:37.26 Tammie Kae, GUM

400 INDIVIDUAL MEDLEY

Championship Finals—Jan. 7

4:41.45 Lin Li, CHN
4:41.46 Hayley Lewis, AUS
4:43.41 Summer Sanders, USA
4:46.05 Janet Evans, USA
4:46.93 Petra Haussmann, GER
4:47.62 Nancy Sweetnam, CAN
4:49.81 Grit Mueller, GER
4:52.34 Beatrice Coada, ROM

Consolation Finals—Jan. 7

4:52.10 Jodie Clatworthy, AUS
4:52.92 Ana Petricevic, YUG
4:53.43 Fumie Kuratori, JPN
4:53.80 Zara Long, GBR
4:55.77 Helen Slater, GBR
4:56.88 Linda Robinson, NZL
4:59.13 Michelle Smith, IRL
4:59.92 Eri Kimura, JPN

Prelims—Jan. 7

4:43.80 Summer Sanders, USA
4:45.42 Hayley Lewis, AUS
4:49.10 Janet Evans, USA
4:50.31 Lin Li, CHN
4:51.44 Petra Haussmann, GER
4:52.63 Beatrice Coada, ROM
4:52.67 Grit Mueller, GER
4:52.93 Nancy Sweetnam, CAN
4:53.92 Jodie Clatworthy, AUS
4:54.80 Zara Long, GBR
4:54.93 Fumie Kuratori, JPN
4:56.42 Ana Petricevic, YUG
4:56.52 Michelle Smith, IRL
4:57.31 Linda Robinson, NZL
4:58.27 Helen Slater, GBR
4:58.34 Eri Kimura, JPN
4:58.66 Nuria Castello, ESP
5:00.44 Lorenza Munoz, MEX
5:05.22 Yan Ming, CHN
5:05.49 Sandra Cam, BEL
5:08.05 Panagiot Pouloupoulou, GRE
5:10.65 Audrey Guert, FRA
5:11.15 Maya Nasution, INA
5:14.79 Corina Dumitru, ROM
5:27.40 Hadwijaja Listiyani, INA

400 MEDLEY RELAY

Championship Finals—Jan. 12

4:06.51n United States
4:08.04c Australia
4:10.50 Germany
4:13.32 Netherlands
4:13.90 Great Britain
4:14.88 Canada
4:26.07 Mexico
Prelims—Jan. 12
4:13.12 United States
4:14.10 Australia
4:14.16 Great Britain
4:15.08 Germany
4:15.27 Netherlands
4:15.62 Canada
4:33.87 China
4:34.48 Mexico
4:34.60 Indonesia
4:35.96 New Zealand
DQ Italy
DQ Denmark

400 FREESTYLE RELAY

Championship Finals—Jan. 9

4:34.26n United States
4:44.37 Germany
4:45.05 Netherlands
4:48.24 Australia
4:48.33 Denmark
4:49.22 Canada
4:50.97 Sweden
4:52.24 Great Britain
Prelims—Jan. 9
4:46.15 Germany
4:46.49 United States
4:47.26 Netherlands
4:50.30 Denmark
4:50.53 Sweden
4:51.31 Australia
4:51.79 Canada
4:53.52 Great Britain
4:54.65 Italy
4:57.04 Mexico
4:59.37 China
4:08.51 Indonesia

800 FREESTYLE RELAY

Championship Finals—Jan. 7

8:02.56 Germany
8:05.97 Netherlands
8:07.20 Denmark
8:09.16 Australia
8:15.35 Canada
8:18.10 Sweden
8:21.52 Norway
DQ United States
Prelims—Jan. 7
8:07.60 United States
8:09.66 Germany
8:11.20 Netherlands
8:15.09 Australia
8:15.50 Denmark
8:20.88 Canada

8:22.89 Sweden
8:23.14 Norway
8:42.17 Mexico
8:53.70 Indonesia

MEN

50 FREESTYLE

Championship Finals—Jan. 12

22.16 Tom Jager, USA
22.26 Matt Biondi, USA
22.62 Gennadiy Prigoda, URS
22.75 Lars-Ove Jansson, SWE
22.75 Vladimir Tkachenko, URS
22.83 Dano Halsall, SUI
22.87 Andrew Baldon, AUS
22.88 Darren Lange, AUS

Consolation Finals—Jan. 12

22.94 Christophe Kalfayan, FRA
23.06 Goran Titus, SWE
23.11 Stephan Caron, FRA
23.15 Gustavo Borges, BRA
23.18 Christian Troeger, GER
23.29 Franz Mortensen, DEN
23.39 Ron Dekker, HOL
23.48 P. Manuel Trindade, POR

Prelims—Jan. 12

22.42 Matt Biondi, USA
22.56 Tom Jager, USA
22.77 Dano Halsall, SUI
22.90 Darren Lange, AUS
22.91 Gennadiy Prigoda, URS
22.98 Vladimir Tkachenko, URS
22.99 Lars-Ove Jansson, SWE
23.00 Andrew Baldon, AUS
23.01 Stephan Caron, FRA
23.09 Christophe Kalfayan, FRA
23.20 Goran Titus, SWE
23.28 Christian Troeger, GER
23.29 Franz Mortensen, DEN
23.29 Ron Dekker, HOL
23.38 Gustavo Borges, BRA
23.47 P. Manuel Trindade, POR
23.51 Stefan Volery, SUI
23.53 Austyn Shortman, GBR
23.55 Nicholas Sanders, NZL
23.56 Dean Kondziolka, CAN
23.61 Dierd Caball, YUG
23.64 Feng Qingbiao, CHN
23.70 Rodrigo Gonzales, MEX
23.75 Shen Jianqing, CHN
23.80 Richard Granneman, HOL
23.86 Yoav Bruck, ISR
23.93 Michael Wright, HKG
24.01 Bela Szabados, HUN
24.20 Jarl Inge Melberg, NOR
24.21 Yves Clausse, LUX
24.24 Richard Bera, INA
24.24 Todd Torres, PUR
24.31 Janne Vermasheina, FIN
24.49 Allan Murray, BAH
24.51 Kheng Hui Gan, SIN
24.54 Jose Gutierrez, MEX
24.58 Patrick Sagis, GUM
24.67 Maciej Soszynski, POL
25.25 Wisnu Wardhana, INA
25.43 Bencheok Soliane, ALG
25.48 Wie Jin Yeo, SIN
25.52 Chun Hung Lee, TPE
26.35 Raymond Flores, GUM
26.46 Michel Piva, SMR
26.68 Roberto Pellandara, SMR
26.76 Hei Lok, MAC

100 FREESTYLE

Championship Finals—Jan. 9

49.18 Matt Biondi, USA
49.63 Tommy Werner, SWE
49.82 Giorgio Lamberti, ITA
50.04 Yuri Bashkatov, URS
50.22 Anders Holmertz, SWE
50.26 Stephan Caron, FRA
50.58 Peter Sitt, GER
51.10 Shaun Jordan, USA
Consolation Finals—Jan. 9
50.32 Gennadiy Prigoda, URS
50.47 Roberto Gleria, ITA
50.68 Andrew Baldon, AUS
50.77 Gustavo Borges, BRA
50.78 Thomas Stachewicz, AUS
50.85 Jochen Bruha, GER
50.99 Christophe Kalfayan, FRA
51.11 Austyn Shortman, GBR
Prelims—Jan. 9
49.59 Matt Biondi, USA
50.34 Stephan Caron, FRA
50.35 Tommy Werner, SWE
50.37 Anders Holmertz, SWE
50.48 Shaun Jordan, USA
50.53 Peter Sitt, GER
50.53 Giorgio Lamberti, ITA
50.54 Yuri Bashkatov, URS
50.70 Christophe Kalfayan, FRA
50.74 Gennadiy Prigoda, URS
50.77 Andrew Baldon, AUS
51.00 Gustavo Borges, BRA
51.06 Roberto Gleria, ITA
51.11 Jochen Bruha, GER
51.18 Austyn Shortman, GBR
51.24 Thomas Stachewicz, AUS
51.28 Franz Mortensen, DEN
51.29 John Steel, NZL
51.38 Richard Granneman, HOL

Consolation Finals—Jan. 9

51.41 Rodrigo Gonzales, MEX
51.47 Adolfo Coll, ESP
51.49 Jarl Inge Melberg, NOR
51.58 Ron Dekker, HOL
51.62 Emanuel Nascimento, BRA
51.63 Nicholas Sanders, NZL
51.98 Bela Szabados, HUN
52.02 Yoav Bruck, ISR
52.16 Stefan Volery, SUI
52.16 Dierd Caball, YUG
52.30 Xie Jun, CHN
52.36 Jose Gutierrez, MEX
52.45 Janne Vermasheina, FIN
52.63 Richard Bera, INA
52.74 Jonathan Sakovich, NMA
52.95 Yves Clausse, LUX
52.97 Wang Dali, CHN
53.00 Maciej Soszynski, POL
53.02 Carlos Scaviano, URS
53.30 Michael Wright, HKG
53.33 Boleslaw Szuter, POL
54.25 Patric Sagi, GUM
54.35 Marco Herr, LUX
54.41 Patrick Sagis, GUM
54.45 Allan Murray, BAH
54.50 Kheng Hui Gan, SIN
55.39 Wisnu Wardhana, INA
55.47 Sultan Al Otaibi, KUL
55.51 Wie Jin Yeo, SIN
55.71 Shih Hung Lee, TPE
57.46 Michele Piva, SMR
57.60 Filippo Piva, SMR
58.08 Raymond Flores, GUM

51.41 Rodrigo Gonzales, MEX
51.47 Adolfo Coll, ESP
51.49 Jarl Inge Melberg, NOR
51.58 Ron Dekker, HOL
51.62 Emanuel Nascimento, BRA
51.63 Nicholas Sanders, NZL
51.98 Bela Szabados, HUN
52.02 Yoav Bruck, ISR
52.16 Stefan Volery, SUI
52.16 Dierd Caball, YUG
52.30 Xie Jun, CHN
52.36 Jose Gutierrez, MEX
52.45 Janne Vermasheina, FIN
52.63 Richard Bera, INA
52.74 Jonathan Sakovich, NMA
52.95 Yves Clausse, LUX
52.97 Wang Dali, CHN
53.00 Maciej Soszynski, POL
53.02 Carlos Scaviano, URS
53.30 Michael Wright, HKG
53.33 Boleslaw Szuter, POL
54.25 Patric Sagi, GUM
54.35 Marco Herr, LUX
54.41 Patrick Sagis, GUM
54.45 Allan Murray, BAH
54.50 Kheng Hui Gan, SIN
55.39 Wisnu Wardhana, INA
55.47 Sultan Al Otaibi, KUL
55.51 Wie Jin Yeo, SIN
55.71 Shih Hung Lee, TPE
57.46 Michele Piva, SMR
57.60 Filippo Piva, SMR
58.08 Raymond Flores, GUM

200 FREESTYLE

Championship Finals—Jan. 7

1:47.27 Giorgio Lamberti, ITA
1:48.28 Steffen Zesner, GER
1:48.70 Artur Wojdat, POL
1:49.05 Anders Holmertz, SWE
1:49.37 Veniamin Tajanovich, URS
1:49.50 Troy Dalbey, USA
1:49.71 Turlough O'Hare, CAN
1:50.54 Doug Gertsen, USA
Consolation Finals—Jan. 7
1:49.97 Peter Sitt, GER
1:50.08 Ian Brown, AUS
1:50.13 Roberto Gleria, ITA
1:50.17 Martin Roberts, AUS
1:50.75 Richard Granneman, HOL
1:50.81 Yuri Bashkatov, URS
1:50.94 Christophe Marchand, FRA
1:52.28 Franz Mortensen, DEN

Prelims—Jan. 7

1:48.58 Doug Gertsen, USA
1:49.39 Anders Holmertz, SWE
1:49.40 Veniamin Tajanovich, URS
1:49.43 Giorgio Lamberti, ITA
1:49.49 Artur Wojdat, POL
1:49.71 Steffen Zesner, GER
1:49.95 Troy Dalbey, USA
1:50.00 Turlough O'Hare, CAN
1:50.32 Martin Roberts, AUS
1:50.33 Ian Brown, AUS
1:50.37 Roberto Gleria, ITA
1:50.50 Peter Sitt, GER
1:50.91 Richard Granneman, HOL
1:51.30 Christophe Marchand, FRA
1:51.37 Yuri Bashkatov, URS
1:51.69 Franz Mortensen, DEN
1:51.92 Christer Wallin, SWE
1:52.10 Jarl Inge Melberg, NOR
1:52.38 John Steel, NZL
1:52.47 Carlos Scaviano, URS
1:52.55 Jure Bucar, YUG
1:52.65 Norbert Agh, HUN
1:52.65 Jonathan Sakovich, NMA
1:52.71 Maciej Soszynski, POL
1:53.07 Tomohiro Noguchi, JPN
1:53.30 Emanuel Nascimento, BRA
1:53.47 Yoav Bruck, ISR
1:53.85 Gustavo Borges, BRA
1:53.97 Ignacio Escamilla, MEX
1:54.74 Wang Dali, CHN
1:54.75 Jose Gutierrez, MEX
1:54.79 Richard Bera, INA
1:54.94 Jorge Herrera, PUR
1:56.24 Milia Kanellopoulos, GRE
1:57.51 Bernard Charlier, BEL
1:58.76 Marco Herr, LUX
1:59.90 Wie Jin Yeo, SIN
2:01.44 Chun Hung Lee, TPE
2:01.47 Shih Hung Lee, TPE
2:03.37 Feng Ming Hsu, TPE
2:04.07 Raymond Flores, GUM
2:04.29 Albert Sutanto, INA
2:06.18 Emile Lahoud, LIB
2:08.51 Daniele Casade, SMR
2:10.51 Marco Stolfi, SMR

400 FREESTYLE

Championship Finals—Jan. 11

3:48.04 Joerg Hoffmann, GER
3:48.86 Stefan Pfeiffer, GER
3:49.67 Artur Wojdat, POL
3:49.72 Anders Holmertz, SWE
3:50.89 Evgeniy Logvinov, URS
3:51.55 Zoltan Szilagyi, HUN
3:51.75 Ian Brown, AUS
3:54.29 Dan Jorgensen, USA
Consolation Finals—Jan. 11
3:53.20 Kieren Perkins, AUS

Buck Dawson's

CAMP AK-O-MAK (Girls 8-17)

CAMP CHIKOPI (Boys 8-17)

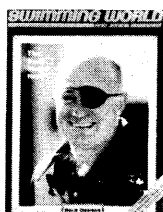
Swim with Olympic Sprint Coach Ray Bussard & Double Gold medal Synchro swimmer Carolyn Waldo. Dive & tramp with Gold medalist Micki King.

For 7 Weeks—June 27-August 15

(Chikopi has multiple sessions)

On beautiful Ahmic Lake in Canada

Novice to senior in 6 reg. bulkhead pools.



Buck Dawson (Camp Owner)
First Director Swimming Hall of Fame

- USS Nat'l. Sr. Long Distance (Team) Champs '81, '86
- '86, '88, '89 Training Camp for USS World Long Dist. Champs. team
- CASA (Canadian Amateur Swimming Assoc.) Dev Camp for 19 years.
- Bob Duenkel (Chikopi Director) chosen as '87-'88 USS Nat'l. Coach for Long Dist. Swimming and '88 FINA World Cup Coach.
- A program designed by 18 Olympic coaches for age group swimmers.
- 40 Olympians and 300 All-Americans started here—SO CAN YOU!
- 1987-'89 Canadian Nat'l. Canoe Champs
- When not in the pool, learn 25 other sports.

DO YOU WANT A WORLD CLASS, SUCCESS-PROVEN SWIM PROGRAM

with one-to-one coaching, video taping, weight program, stroke drills, self-esteem and movement education?

OR

DO YOU WANT A WILDERNESS CAMP EXPERIENCE WITH CANOE TRIPS,

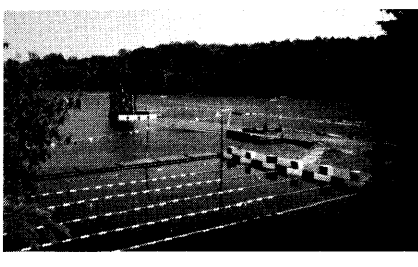
Ramboo hunts, rustic cabin life and home cooking?

WHY NOT BOTH!

Write for brochures:

Bob Duenkel (CHIKOPI)
2132 NE 17 Terr.
Ft. Lauderdale, FL
33305
305-462-6536/566-8235

Marci Dawson Williams
(AK-O-MAK)
3631 Mandarin Wood Dr. N.
Jacksonville, FL 32223
800-368-4152



FOR THE RECORD

3:53.88 Emanuele Idini, ITA
3:54.01 Jorge Herrera, PUR
3:54.26 Sean Killion, USA
3:54.51 Christophe Marchand, FRA
3:55.58 Jure Bucur, YUG
3:57.15 Tomohiro Noguchi, JPN
3:59.39 Richard Granneman, HOL

Prelims—Jan. 11
3:51.82 Artur Wodatz, POL
3:51.85 Joerg Hoffmann, GER
3:52.28 Zoltan Szilagyi, HUN
3:52.42 Stefan Pfeiffer, GER
3:52.63 Ian Brown, AUS
3:52.86 Evgeniy Logvinov, URS
3:53.06 Dan Jorgensen, USA
3:53.17 Anders Holmertz, SWE
3:53.94 Christophe Marchand, FRA
3:54.57 Kieren Perkins, AUS
3:54.66 Jorge Herrera, PUR
3:55.04 Sean Killion, USA
3:55.04 Emanuele Idini, ITA
3:56.33 Jure Bucur, YUG
3:56.44 Richard Granneman, HOL
3:58.07 Mariusz Podkosielski, POL
3:58.14 Igor Majcen, YUG
3:58.34 Tomohiro Noguchi, JPN
3:58.49 Danyon Loader, NZL
3:58.58 Norbert Agh, HUN
3:59.66 Jonathan Sakovich, NMA
4:00.85 Dmitry Lepikov, URS
4:02.37 Carlos Scanavino, JRU
4:04.49 Artur Manuel Costa, POR
4:06.15 Jeffrey Ong, MAL
4:06.79 Rodolfo Bulnes, MEX
4:08.88 Milta Kanellopoulos, GRE
4:09.46 Bernard Charlier, BEL
4:10.55 Phillip McGillion, IRL
4:11.03 Wei Jin Yeo, SIN
4:13.90 Marco Herr, LUX
4:22.09 Shih Hung Lee, TPE
4:22.29 Chun Hung Chen, TPE
4:23.81 Albert Sutanto, INA
4:28.30 Felix Sutanto, INA
4:29.08 Raymond Flores, GUM
4:32.81 Feng Ming Hsu, TPE
4:32.82 Chung Tsi, TPE

1500 FREESTYLE

Championship Finals—Jan. 13
14:50.36 Joerg Hoffmann, GER
15:07.71, 1:56:71.2 55.56
3:54.70, 4:54:13.53 56.66
6:52.95, 7:52.55 8:52.55
9:52.46, 10:52.27 11:52.35
12:52.62, 13:52.91
14:50.58 Kieren Perkins, AUS
14:59.34 Stefan Pfeiffer, GER
15:11.17 Ian Wilson, GBR
15:12.42 Glen Housman, AUS
15:18.22 Igor Majcen, YUG
15:22.33 Keith Frostad, USA
15:29.34 Evgeniy Logvinov, URS
Prelims—Jan. 12
15:13.36 Joerg Hoffmann, GER
15:16.40 Keith Frostad, USA
15:18.76 Stefan Pfeiffer, GER
15:19.16 Glen Housman, AUS
15:20.36 Kieren Perkins, AUS
15:21.29 Evgeniy Logvinov, URS
15:21.98 Ian Wilson, GBR
15:25.63 Igor Majcen, YUG
15:31.96 Christophe Marchand, FRA
15:34.75 Sean Killion, USA
15:38.13 Harry Taylor, CAN
15:41.05 Zoltan Szilagyi, HUN
15:41.84 Jorge Herrera, PUR
15:44.65 Danyon Loader, NZL
15:47.13 Andres Monelli, ARG
15:48.88 Artur Manuel Costa, POR
15:58.33 Jonathan Sakovich, NMA
15:59.31 Jeffrey Ong, MAL
16:04.76 Mariusz Podkosielski, POL
16:26.45 Rodolfo Bulnes, MEX
16:40.63 Milta Kanellopoulos, GRE
17:33.60 Chung Tsi, TPE

100 BACKSTROKE

Championship Finals—Jan. 12
55.23 Jeff Rouse, USA
55.29 Mark Tewksbury, CAN
55.61 Martin Lopez Zubero, ESP
55.45 Frank Hoffmeister, GER
55.45 Vladimir Shemetov, URS
55.92 Scot Johnson, USA
57.00 Thomas Stachewicz, AUS
57.03 Stefano Battistelli, ITA
Consolation Finals—Jan. 12
56.67 Vladimir Seikov, URS
57.26 Tamas Deutsch, HUN
57.30 Martin Harris, GBR
57.52 Simon Percy, NZL
57.61 Attila Czene, HUN
57.61 Simon Upton, AUS
57.63 Yashuh Van de Walle, BEL
57.81 Stelana Maene, BEL
Prelims—Jan. 12
55.34 Jeff Rouse, USA
55.86 Mark Tewksbury, CAN
56.22 Martin Lopez Zubero, ESP
56.40 Vladimir Shemetov, URS
56.46 Frank Hoffmeister, GER
56.78 Scot Johnson, USA

57.03 Stefano Battistelli, ITA
57.06 Thomas Stachewicz, AUS
57.07 Dirk Richter, GER
57.08 Martin Harris, GBR
57.22 Tamas Deutsch, HUN
57.51 Attila Czene, HUN
57.74 Simon Percy, NZL
57.85 Stelana Maene, BEL
57.90 Yashuh Van de Walle, BEL
57.92 Vladimir Seikov, URS
57.94 Simon Upton, AUS
58.04 Lars Sorensen, DEN
58.18 Frank Schott, FRA
58.22 Rogero Romero, BRA
58.33 Manuel Guzman, PUR
58.42 Carlos Vertosa, ESP
58.58 Gueorgui Minaev, BUL
58.81 Luca Bianchi, ITA
59.19 Fong Jock Lim, SIN
59.36 Lin Laiju, CHN
59.43 Ronald Soesewij, HOL
59.49 Eran Groum, ISR
59.49 Thomas Sopp, NOR
59.59 Martin Van der Spoel, HOL
59.82 Sang J. KOR
1:00.29 Derya Buyukuncu, TUR
1:00.43 Emmanouil Kaniaris, GRE
1:00.66 Timothy Bowen, NZL
1:02.51 Benckekor Soliane, ALG
1:04.03 V-Meng Tan, SIN
1:05.81 Felix Sutanto, INA
1:06.87 Wisnu Wardana, INA
1:07.80 Filippo Piva, SMR

200 BACKSTROKE

Championship Finals—Jan. 9
1:59.52 Martin Lopez Zubero, ESP
1:59.98 Stefano Battistelli, ITA
2:00.33 Vladimir Seikov, URS
2:00.95 Dirk Richter, GER
2:01.25 Tamas Deutsch, HUN
2:01.49 Kevin Draxinger, CAN
2:01.98 Vladimir Shemetov, URS
2:02.25 Jeff Rouse, USA
Consolation Finals—Jan. 9
2:01.42 Royce Sharp, USA
2:02.73 Lars Sorensen, DEN
2:02.94 Luca Bianchi, ITA
2:03.63 David Holderbach, FRA
2:03.89 Rogero Romero, BRA
2:03.93 Rafi Braur, GER
2:04.34 Stelana Maene, BEL
2:05.33 Toby Haenen, AUS
Prelims—Jan. 9
2:00.73 Martin Lopez Zubero, ESP
2:01.87 Dirk Richter, GER
2:02.98 Tamas Deutsch, HUN
2:02.17 Kevin Draxinger, CAN
2:02.25 Stefano Battistelli, ITA
2:02.31 Vladimir Seikov, URS
2:02.61 Jeff Rouse, USA
2:02.66 Vladimir Shemetov, URS
2:03.07 Luca Bianchi, ITA
2:03.13 Rafi Braur, GER
2:03.39 David Holderbach, FRA
2:03.90 Royce Sharp, USA
2:04.26 Stelana Maene, BEL
2:04.34 Rogero Romero, BRA
2:04.91 Lars Sorensen, DEN
2:04.93 Toby Haenen, AUS
2:05.04 Simon Percy, NZL
2:05.38 Yashuh Van de Walle, BEL
2:05.58 Attila Czene, HUN
2:05.86 Thomas Sopp, NOR
2:06.27 Manuel Guzman, PUR
2:06.44 Sang J. KOR
2:06.98 Martin Van der Spoel, HOL
2:07.00 Timothy Bowen, NZL
2:07.21 Gueorgui Minaev, BUL
2:08.18 Brent Harding, AUS
2:09.27 Ronald Soesewij, HOL
2:11.16 Fong Jock Lim, SIN
2:12.38 Charala Papanikolaou, GRE
2:14.09 Derya Buyukuncu, TUR
2:15.89 Benckekor Soliane, ALG
2:19.07 V-Meng Tan, SIN
2:21.51 Felix Sutanto, INA
2:23.50 Woltry Purnomo, INA

100 BREASTSTROKE

Championship Finals—Jan. 7
1:01.45w Norbert Rozsa, HUN
Split: 28.37
1:01.58 Adrian Moorhouse, GBR
1:01.74 Gianni Minervin, ITA
1:01.79 Dmitry Volkov, URS
1:02.05 Eric Wunderlich, USA
1:02.05 Karolyi Gutler, HUN
1:02.54 Christian Poswiat, GER
1:02.75 Ron Dekker, HOL
Consolation Finals—Jan. 7
1:02.87 Philip Rogers, AUS
1:02.87 Alexey Matveev, URS
1:02.90 Raigo Faerber, GER
1:03.05 Shane Lewis, AUS
1:03.26 Petr Summen, FIN
1:03.43 Andrea Cecchi, ITA
1:03.48 James Parrack, GBR
1:03.64 Kirk Stickle, USA
Prelims—Jan. 7
1:01.49w Norbert Rozsa, HUN
Split: 28.74

1:01.88 Adrian Moorhouse, GBR
1:02.34 Dmitry Volkov, URS
1:02.51 Karolyi Gutler, HUN
1:02.57 Eric Wunderlich, USA
1:02.69 Ron Dekker, HOL
1:02.70 Christian Poswiat, GER
1:02.86 Gianni Minervin, ITA
1:02.88 Philip Rogers, AUS
1:02.92 Kirk Stickle, USA
1:03.16 Shane Lewis, AUS
1:03.23 Alexey Matveev, URS
1:03.23 Petr Summen, FIN
1:03.23 Andrea Cecchi, ITA
1:03.58 Raigo Faerber, GER
1:03.82 James Parrack, GBR
1:03.86 Cedric Penicaud, FRA
1:03.90 Todd Torres, PUR
1:04.11 Naoyuki Kawaguchi, JPN
1:04.11 Chen Jianrong, CHN
1:04.25 Michael Van Rijn, HOL
1:04.87 Hsin-Yen Tsai, TPE
1:04.91 Ramon Camalanga, ESP

1:04.92 Kenji Watanabe, JPN
1:05.41 Gary O'Toole, IRL
1:05.49 Gustavo Gornahan, URU
1:05.55 Sidney Appleboom, BEL
1:05.59 Joaquin Fernandez, ESP
1:05.76 Wymand Sugrati, INA
1:06.35 Alexandre Yokochi, POR
1:06.97 Jen L. Wang, TPE
1:07.37 Mun K. Khor, SIN
1:08.41 Pablo Minelli, ARG
1:08.92 Philip McGillion, IRL
1:09.24 Bella Abderazaq, ALG
1:09.82 Sultan Al Otabi, KUW
1:10.44 Glenn Diaz, GUM
1:11.68 Chinlo MAC
1:12.16 Danilo Zavoli, SMR
1:12.73 Hei Lok, MAC

200 BREASTSTROKE

Championship Finals—Jan. 11
2:11.23w Mike Barrowman, USA
2:16.61, 1:03:19 1:36:19

2:12.09w Norbert Rozsa, HUN
2:13.12 Nick Gillingham, GBR
2:13.42 Joaquin Fernandez, ESP
2:13.93 Jozsef Szabo, HUN
2:14.24 Sergio Lopez, ESP
2:15.00 Philip Rogers, AUS
2:15.28w Hiroshi Fujiwara, JPN
Consolation Finals—Jan. 11
2:16.34 Rodney Lawson, AUS
2:16.84 Francesco Postiglione, ITA
2:16.89 Kirk Stickle, USA
2:16.96 Vadim Alekseev, URS
2:17.25 Andrea Cecchi, ITA
2:17.39 Ron Dekker, HOL
2:17.55 Gary O'Toole, IRL
2:17.80 Cedric Penicaud, FRA
Prelims—Jan. 11
2:13.82 Mike Barrowman, USA
2:14.10 Nick Gillingham, GBR
2:14.36 Jozsef Szabo, HUN
2:14.44 Joaquin Fernandez, ESP
2:14.91 Sergio Lopez, ESP

2:15.28w Norbert Rozsa, HUN
2:16.23 Hiroshi Fujiwara, JPN
2:16.41 Philip Rogers, AUS
2:16.66 Kirk Stickle, USA
2:16.66 Francesco Postiglione, ITA
2:16.82 Cedric Penicaud, FRA
2:16.90 Rodney Lawson, AUS
2:16.91 Vadim Alekseev, URS
2:17.06 Gary O'Toole, IRL
2:17.76 Andrea Cecchi, ITA
2:17.89 Ron Dekker, HOL
2:18.49 Kenji Watanabe, JPN
2:19.01 Jon Cleveland, CAN
2:19.58 Marco Mascolo, GER
2:20.30 Michele Mason, CAN
2:20.51 Pablo Minelli, ARG
2:20.91 Petr Summen, FIN
2:21.54 Alexandre Yokochi, POR
2:21.88 Gustavo Gornahan, URU
2:22.47 Wolter Dierckx, GER
2:23.50 Michael Van Rijn, HOL
2:23.94 Alexey Matveev, URS

LSU

AQUATICS

BENGAL TIGER AQUATICS

Extremely Fast Pool

— Indoor 50m/25yd Diving Well
Travel Fund money to
Junior/Senior Nat. Qualifiers

GULF STATES SENIOR
MARCH 7-9, 1991
Prelim/Final
15-16 AA Time Standards

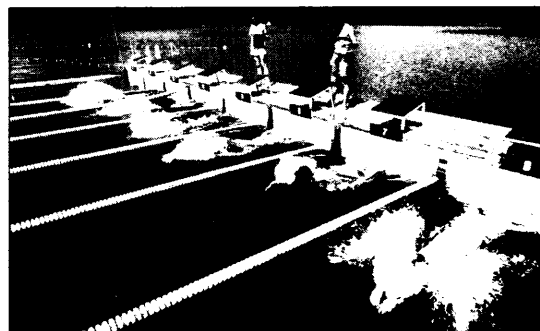
SUMMER CLASSIC
JUNE 8-10, 1991
Prelims 10&U, 11-12, 13-14, SR
Finals are fastest combined 16
regardless of age group

CALL MARC FOREMAN 504-383-2436

Fast Lanes

Having gained a reputation as being among the finest summer camps for boys and girls and for teens, Wekeela is more than a complete experience, encompassing 65 activities, plus frequent regional and Canadian trips.

Wekeela happens to offer a comprehensive competitive swimming program, endorsed by award-winning University of Tennessee



Head Coach John Trembley, and endorsed and staffed by Kathy Lawlor and C. Robb Orr, U Penn and Princeton Head Coaches, respectively.

If you can't afford to slow down your program for the summer, contact us for more information.

*Camp Wekeela
Traditional camps
for teens and children
in beautiful Canton, Maine
since 1922.
Full or Half Season
1991 Season—June 24 to August 18
130 S. Merkle Columbus, OH 43209
(614) 235-3177 FAX (614) 235-3619*



2:25.18 Mun Kit Koh, SIN
2:26.90 Hsin Yen Tsai, TPE
2:28.52 Wirmardi Sugriat, INA
2:28.92 Bella Abderazak, ALG
2:35.01 Glenn Diaz, GUM
2:35.44 Sultan Al Otalbi, KUW
2:37.53 Danilo Zavoli, SMR
DQ Sidney Appelboom, BEL

100 BUTTERFLY

Championship Finals—Jan. 8

53.29 Anthony Nesty, SUR
53.31 Michael Gross, GER
53.74 Viacheslav Kulikov, URS
53.88 Mark Henderson, USA
53.93 Marcel Gery, CAN
53.97 Matt Biondi, USA
54.45 Robert Bruce, AUS
55.49 Bruno Gutzeit, FRA

Consolation Finals—Jan. 8

54.45 Tom Ponting, CAN
54.63 Jason Cooper, AUS
54.78 Thilo Haase, GER
54.87 Hrvoje Baric, YUG
54.90 Leonardo Michelotti, ITA
54.91 Rafal Szukala, POL
55.16 Milos Milosevic, YUG
DNS Viacheslav Novikov, URS

Prelims—Jan. 8

53.72 Anthony Nesty, SUR
54.03 Viacheslav Kulikov, URS
54.20 Mark Henderson, USA
54.30 Marcel Gery, CAN
54.32 Michael Gross, GER
54.53 Robert Bruce, AUS
54.57 Matt Biondi, USA
54.65 Bruno Gutzeit, FRA
54.68 Martin Lopez Zubero, ESP
54.80 Hrvoje Baric, YUG
54.82 Rafal Szukala, POL
54.87 Tom Ponting, CAN
54.90 Thilo Haase, GER
54.97 Milos Milosevic, YUG
54.99 Jason Cooper, AUS
55.09 Leonardo Michelotti, ITA
55.18 Viacheslav Novikov, URS
55.22 Ludovic Depickere, FRA
55.62 Jose Ballester, ESP
55.82 Nicholas Sanders, NZL
55.88 Casper Van Dam, HOL
55.96 John Steel, NZL
56.05 Marco Braida, ITA
56.16 Rik Leishman, GBR
56.43 Jose Carlos de Souza, BRA
56.69 Shen Jianqiang, CHN
56.70 Wojciech Wyzga, POL
56.73 Kunio Sugimoto, JPN
57.01 Christer Kjolholdt, NOR
57.15 Bengt Staveland, NOR
57.23 Tomohiro Miyoshi, JPN
57.36 Paulo Carmacho, POR
57.47 Eran Groumi, ISR
57.48 Yun Lee, KOR
57.49 Theodoros Gniatzakis, GRE
57.84 Rene Santella, PUR

58.37 Jose Conde, MEX
58.44 Patrick Sagisi, GUM
58.77 Diogo Madeira, POR
59.00 Richard Bera, INA
59.06 Marc Seimetz, LUX
59.32 V-Meng Tan, SIN
1:00.16 Wisnu Wardhana, INA
1:00.71 Chun Hung Chen, TPE
1:00.86 Feng Ming Hui, TPE
1:01.01 Sultan Al Otalbi, KUW
1:01.65 Kheng Hui Gan, SIN
1:01.96 Raymond Flores, GUM
1:04.48 Michael Villagomez, NMA

200 BUTTERFLY

Championship Finals—Jan. 12

1:55.69w Melvin Stewart, USA
(Splits: 26.34, 55.60, 1:25.44)
1:56.78 Michael Gross, GER
1:58.25 Tamas Darnyi, HUN
1:59.94 Franck Esposito, FRA
2:00.15 Bart Pippenger, USA
2:00.22a Kunio Sugimoto, JPN
2:00.88 Simon McKillop-Davies, AUS
2:03.08 Martin Roberts, AUS

Consolation Finals—Jan. 12

2:00.87 Tomohiro Miyoshi, JPN
2:01.75 Gary Vander Meulen, CAN
2:01.84 Vadim Yaroshuk, URS
2:02.11 Marco Braida, ITA
2:02.57 Yun Lee, KOR
2:02.82 Jon Kelly, CAN
2:02.85 Jose Ballester, ESP

Prelims—Jan. 12

1:58.41 Michael Gross, GER
1:58.53 Melvin Stewart, USA
1:59.00 Franck Esposito, FRA
2:00.23 Bart Pippenger, USA
2:00.23 Tamas Darnyi, HUN
2:00.56 Martin Roberts, AUS
2:01.00 Simon McKillop-Davies, AUS
2:01.06 Kunio Sugimoto, JPN
2:01.57 Vadim Yaroshuk, URS
2:01.63 Anthony Nesty, SUR
2:01.70 Jon Kelly, CAN
2:01.85 Marco Braida, ITA
2:01.97 Peter Berner, GER
2:02.11 Tomohiro Miyoshi, JPN
2:02.37 Jose Ballester, ESP
2:02.85 Gary Vander Meulen, CAN
2:02.95 Yun Lee, KOR
2:02.96 Christophe Bordeau, FRA
2:03.33 Rafal Szukala, POL
2:03.59 Majaz Kozelj, YUG
2:04.21 Kristian Johansson, FIN
2:05.14 Trond Hoines, NOR
2:05.38 Wojciech Wyzga, POL
2:05.80 Bengt Staveland, NOR
2:05.82 Diogo Madeira, POR
2:05.97 Rene Santella, PUR
2:07.44 Bengt Staveland, NOR
2:08.00 Casper Van Dam, HOL
2:09.03 Jose Conde, MEX
2:09.66 Mun Kit Koh, SIN

2:09.67 V-Meng Tang, SIN
2:12.40 Chun Hung Chen, TPE
2:15.61 Shih Hung Lee, TPE
2:16.43 Raymond Flores, GUM
2:16.52 Feng Ming Hui, TPE
2:20.35 Michael Villagomez, NMA

200 INDIVIDUAL MEDLEY

Championship Finals—Jan. 13

1:59.36w Tamas Darnyi, HUN
(Splits: 26.84, 56.80, 1:31.65)
2:01.87 Eric Namesnik, USA
2:02.36 Christian Gessner, GER
2:02.64 Gary Anderson, CAN
2:02.93 Lars Sorensen, DEN
2:03.09 Jan Bidman, SWE
2:03.23 Darren Ward, CAN
2:03.71 Peter Berner, GER

Consolation Finals—Jan. 13

2:03.10 David Wharton, USA
2:03.77 Attila Czene, HUN
2:03.82 Robert Bruce, AUS
2:04.53 Luca Sacchi, ITA
2:04.85 Vadim Yaroshuk, URS
2:05.32 Manuel Guzman, PUR
2:05.38 Frederic Lefevre, FRA
2:05.93 Rodrigo Gonzales, MEX

Prelims—Jan. 13

2:01.82 Tamas Darnyi, HUN
2:02.44 Lars Sorensen, DEN
2:02.84 Eric Namesnik, USA
2:03.10 Christian Gessner, GER
2:03.20 Darren Ward, CAN
2:03.43 Jan Bidman, SWE
2:03.55 Gary Anderson, CAN
2:03.76 Peter Berner, GER
2:03.85 David Wharton, USA
2:04.02 Martin Lopez Zubero, ESP
2:04.03 Luca Sacchi, ITA
2:04.52 Attila Czene, HUN
2:05.77 Frederic Lefevre, FRA
2:05.31 Manuel Guzman, PUR
2:05.68 Rodrigo Gonzales, MEX
2:05.71 Vadim Yaroshuk, URS
2:05.76 Robert Bruce, AUS
2:06.44 Christophe Bordeau, FRA
2:07.59 Martin Roberts, AUS
2:08.01 Charala Papanikolaou, GRE
2:08.01 Bernard Charlier, BEL
2:08.10 Nicholas Sanders, NZL
2:08.71 Sergio Lopez, ESP
2:08.95 Takahiro Fujimoto, JPN
2:08.98 Emmanouil Kandris, GRE
2:09.25 Kristian Johansson, FIN
2:09.30 Chen Gilad, ISR
2:09.68 John Munro, NZL
2:09.68 Martin Van der Spoel, HOL
2:09.68 Jose Carlos de Souza, BRA
2:10.32 Mun Kit Koh, SIN
2:10.39 Sidney Appelboom, BEL
2:10.50 Dieter Holtz, MEX
2:10.87 Renato Ramalho, BRA
2:11.95 Diogo Madeira, POR
2:12.38 Philip McGillion, IRL

2:13.15 Richard Bera, INA
2:13.46 Fong Jock Lim, SIN
2:13.89 Sultan Al Otalbi, KUW
2:14.73 Wirmardi Sugriat, INA
2:16.59 Shih Hung Lee, TPE
2:29.21 Michael Villagomez, NMA

400 INDIVIDUAL MEDLEY

Championship Finals—Jan. 8

4:12.36w Tamas Darnyi, HUN
(Splits: 59.10, 2:02.57, 3:14.72)
4:15.21n Eric Namesnik, USA
4:16.50 Stefano Battistelli, ITA
4:17.52 Jozsef Szabo, HUN
4:19.88 Luca Sacchi, ITA
4:20.19 David Wharton, USA
4:20.19 Christian Gessner, GER
4:20.52 Sergei Marinuk, URS

Consolation Finals—Jan. 8

4:20.12 Patrick Kuhl, GER
4:23.82a Takahiro Fujimoto, JPN
4:23.83 Curtis Myden, CAN
4:25.57 Christophe Bordeau, FRA
4:26.20 Frederic Lefevre, FRA
4:27.12 Brent Harding, AUS
4:31.32 Renato Ramalho, BRA
4:31.99 John Munro, NZL

Prelims—Jan. 8

4:16.21 Tamas Darnyi, HUN
4:17.82 Eric Namesnik, USA
4:19.04 Jozsef Szabo, HUN
4:20.20 Stefano Battistelli, ITA
4:21.04 Sergei Marinuk, URS
4:21.37 David Wharton, USA
4:21.83 Luca Sacchi, ITA
4:22.06 Christian Gessner, GER
4:22.79 Patrick Kuhl, GER
4:23.04 Jan Bidman, SWE
4:24.59 Brent Harding, AUS
4:24.77 Curtis Myden, CAN
4:25.77 Christophe Bordeau, FRA
4:26.32 Takahiro Fujimoto, JPN
4:27.40 Darren Ward, CAN
4:28.03 Frederic Lefevre, FRA
4:31.55 Renato Ramalho, BRA
4:32.14 John Munro, NZL
4:34.76 Kristian Johansson, FIN
4:35.81 Martin Van der Spoel, HOL
4:36.19 Philip McGillion, IRL
4:37.90 Dieter Holtz, MEX
4:38.61 Mun Kit Koh, SIN
4:39.25 Emmanouil Kandris, GRE
4:40.02 Charala Papanikolaou, GRE
4:52.37 Shih Hung Lee, TPE
4:56.79 V-Meng Tan, SIN
5:02.45 Felix Sutanto, INA
5:03.78 Albert Sutanto, INA
DO Chen Gilad, ISR

400 MEDLEY RELAY

Championship Finals—Jan. 13

3:39.66 United States
3:40.41 Soviet Union
3:42.13 Germany

3:42.14 Canada
3:42.29 Italy
3:42.84 Australia
3:45.19 Spain
3:47.60 Netherlands
Prelims—Jan. 13
3:42.86 Canada
3:43.51 United States
3:44.58 Germany
3:44.81 Italy
3:45.06 Soviet Union
3:45.33 Australia
3:45.97 Spain
3:46.49 Netherlands
3:48.97 Great Britain
3:53.33 Puerto Rico
3:54.77 China
3:56.94 Brazil
3:57.54 Belgium
4:00.47 Singapore
4:08.31 Indonesia
4:14.54 Chinese Taipei
DO France

400 FREESTYLE RELAY

Championship Finals—Jan. 11

3:17.15 United States
3:18.88 Germany
3:18.97 Soviet Union
3:20.43 Sweden
3:20.96 Australia
3:22.42 Canada
3:26.97 Netherlands
DO France

Prelims—Jan. 11

3:19.67 United States
3:20.10 Soviet Union
3:21.19 Germany
3:21.85 Australia
3:21.92 France
3:22.10 Sweden
3:23.69 Canada
3:25.45 Netherlands
3:27.07 Mexico
3:28.35 Brazil
3:28.80 Norway
3:30.78 New Zealand
3:36.99 Indonesia
3:38.61 Singapore
3:50.70 Chinese Taipei
DO San Marino

800 FREESTYLE RELAY

Championship Finals—Jan. 8

7:13.50 Germany
7:13.87 United States
7:17.18 Italy
7:18.10 Sweden
7:20.64 Soviet Union
7:21.86 Australia
7:22.74 Canada
7:27.18 Poland
Prelims—Jan. 8
7:23.14 United States
7:23.17 Germany
7:25.63 Sweden
7:26.11 Australia
7:29.20 Canada
7:30.26 Poland
7:30.32 Soviet Union
7:37.20 Mexico
7:38.97 Norway
7:41.73 Brazil
7:45.18 New Zealand
8:05.27 Singapore
8:23.86 Chinese Taipei

DIVING

WOMEN

1-METER SPRINGBOARD

Finals Jan. 7

478.26 Gao Min, CHN
467.82 Wendy Lucero, USA
449.76 Heidemar Barotva, TCH
446.82 Irina Lashko, URS
421.89 Mary Depiero, CAN
421.38 Jodie Rogers, AUS
418.23 Yu Xiaoling, CHN
415.74 J. Farrell-Ovenhouse, USA
412.59 Doerte Lindner, GER
407.37 Yuki Motobuchi, JPN
402.78 Daphne Jongejans, HOL
393.87 Baro Bush, CAN

Prelims Jan. 6

475.95 Irina Lashko, URS
466.53 Wendy Lucero, USA
452.79 Yu Xiaoling, CHN
451.62 Gao Min, CHN
435.78 Heidemar Barotva, TCH
426.09 Mary Depiero, CAN
418.59 J. Farrell-Ovenhouse, USA
416.10 Daphne Jongejans, HOL
406.74 Doerte Lindner, GER
400.86 Jodie Rogers, AUS
397.20 Baro Bush, CAN
393.15 Yuki Motobuchi, JPN
389.58 Luissella Bisello, ITA

3-METER SPRINGBOARD

Finals Jan. 7

539.01 Irina Lashko, URS
524.70 Brita Baldus, GER
503.73 Lu Haisong, CHN
492.99 Daphne Jongejans, HOL
467.52 Heidemar Barotva, TCH
461.67 J. Farrell-Ovenhouse, USA
455.43 Katrin Bensing, GER
454.23 Tracy Cox-Smyth, ZIM
453.69 Krista Wilson, USA
444.51 Mary Depiero, CAN
440.61 Evelynne Boivert, CAN

Prelims Jan. 10

536.22 Gao Min, CHN
501.99 Irina Lashko, URS
499.47 Lu Haisong, CHN
484.62 Brita Baldus, GER
468.68 Daphne Jongejans, HOL
468.99 Krista Wilson, USA
468.66 Mary Depiero, CAN
465.36 Heidemar Barotva, TCH
443.94 Tracy Cox-Smyth, ZIM
443.91 J. Farrell-Ovenhouse, USA
443.40 Katrin Bensing, GER
439.38 Evelynne Boivert, CAN
432.42 Yuki Motobuchi, JPN
430.62 Rachel Williams, AUS
422.88 Agnes Gerlach, HUN
420.15 Jodie Rogers, AUS
412.44 Mary Cruz, MEX
410.40 Julia Jose Alcala, MEX
409.44 Veronica Ribot, ARG
405.90 Elena Miroshina, URS
405.87 Hyon-Suk Kang, PRK
398.85 Jessica Ayala, MEX
394.77 Luissella Bisello, ITA
381.63 Catherine Aviat, SUI
381.36 Karla Goltman, ARG
362.64 Ann-Sofie Rylander, SWE
358.68 Maria Silvia Martins, BRA
263.58 Nani Suryani, INA

10-METER PLATFORM

Finals Jan. 4

426.51 Fu Mingxia, CHN
402.87 Elena Miroshina, URS
400.23 Wendy Williams, USA
399.12 Xu Yamei, CHN
377.76 Chun-Ok Kim, PRK
376.74 Inga Altonina, URS
376.47 Doris Pecher, GER
376.17 Monika Kuehn, GER
369.51 April Adams, AUS
347.85 Vyninka Arlow, AUS
340.65 Cokey Smith, USA
329.55 Kamilla Gamme, NOR
326.10 Anna Dacshyn, CAN

Prelims Jan. 3

435.03 Xu Yamei, CHN
406.80 Fu Mingxia, CHN
402.15 Wendy Williams, USA
390.93 Chun-Ok Kim, PRK
386.58 April Adams, AUS
385.50 Inga Altonina, URS
367.17 Doris Pecher, GER
365.04 Cokey Smith, USA
355.95 Elena Miroshina, URS
352.08 Vyninka Arlow, AUS
349.71 Kamilla Gamme, NOR
346.98 Anna Dacshyn, CAN
346.98 Monika Kuehn, GER
344.07 Veronica Ribot, ARG
333.81 Angela Borthwick, CAN
331.77 Cristina Milan, MEX
327.72 Yvonne Kostenberger, SUI
325.20 Ioana Voicu, ROM
323.85 Mary-Jose Alcala, MEX
320.58 Hyon-Suk Kang, PRK
310.62 Tania Paterson, NZL
302.52 Christiane Rappaz, SUI
297.75 Luissella Bisello, ITA
296.13 Ann-Sofie Rylander, SWE
260.85 Silvana Nitelke, BRA

MEN

1-METER SPRINGBOARD

Finals Jan. 5

588.51 Edwin Jongejans, HOL
578.22 Mark Lenzi, USA
577.86 Wang Yifei, CHN
547.98 Peter Boehler, GER
544.56 Mark Bradshaw, MEX
543.09 Jorge Lomarovskiy, URS
528.18 Sergey McCormack, AUS
519.21 Tan Liangde, CHN
508.77 Valeriy Stetsenko, URS
492.39 Russell Butler, AUS
478.35 Davide Lorenzini, ITA

KNABE'S

SWIM and TROPHY SHOP

Now in their 38th year
APPEARING LIVE

at
4221 Northern Pike, Monroeville, PA 15146
CALL 1-800-452-1441

Starring . . .
SPEEDO
ARENA
TYR
HIND
FINALS
OCEAN POOL
OCEAN PACIFIC

Also . . .
Custom Made
Ribbons
Plaques
Trophies

Plus . . .
Fund Raising
Consignment
Program

NOW!

With each team order . . .

A 5x7 or 8x10 team photo beautifully mounted in a quality recessed
plaque is yours FREE with the good wishes of KNABE'S

VISA, MC, DISCOVER, CHECK, MO

Prelims	Jan. 4
573.76	Edwin Jongejans, HOL
571.11	Wang Yile, CHN
563.34	Tan Liangde, CHN
555.90	Mark Lenz, USA
544.32	Joachim Andersson, SWE
543.81	Mark Bradshaw, USA
532.02	Peter Boehler, GER
521.76	Jorge Mondragon, MEX
517.71	Sergey Lomanovskiy, URS
506.04	Valeriy Statsenko, URS
505.44	David Lorenz, ITA
499.41	Simon McCormack, AUS
494.91	Russell Butler, AUS
486.96	Abe Ramrez, CUB
478.68	David Bedard, CAN
478.62	Rainer Puntze, GER
468.54	Robert Morgan, GBR
467.37	Ole Johnny Aasen, NOR
466.56	Larry Flewelling, CAN
459.36	Philippe Duvernay, FRA
458.13	Fernando Platas, MEX

3-METER SPRINGBOARD

Finals	Jan. 9
650.25	Kent Ferguson, USA
643.95	Tan Liangde, CHN
639.77	Abon Kilat, GER
614.73	Li Delang, CHN
610.14	Mark Bradshaw, USA
598.83	Sergey Lomanovskiy, URS
577.98	Valeriy Statsenko, URS
569.52	Edwin Jongejans, HOL
565.83	Fernando Platas, MEX
565.14	Simon McCormack, AUS
563.70	Jorge Mondragon, MEX
549.54	Mark Rourke, CAN

Prelims	Jan. 8
637.08	Tan Liangde, CHN
608.37	Abon Kilat, GER
599.82	Valeriy Statsenko, URS
594.06	Sergey Lomanovskiy, URS
589.77	Fernando Platas, MEX
586.59	Li Delang, CHN
585.93	Kent Ferguson, USA
581.19	Jorge Mondragon, MEX
573.93	Mark Bradshaw, USA
558.54	Simon McCormack, AUS
558.39	Edwin Jongejans, HOL
547.65	Mark Rourke, CAN
528.84	Joachim Andersson, SWE
528.69	David Lorenz, ITA
524.22	Peter Boehler, GER
513.69	Robert Morgan, GBR
512.73	Michael Murphy, AUS
512.19	Yuan Lee, TPE
511.89	Larry Flewelling, CAN
509.46	Philippe Duvernay, FRA
502.44	Jerome Nallio, CAN
490.44	Ole Johnny Aasen, NOR
490.14	Jose Gil, ESP
485.34	Nik Stajkovic, AUT
463.56	Gum San Cho, PRK
455.10	Juergen Richter, AUT
453.96	Jeff Arbon, GBR
451.56	Dennis Sorensen, DEN
436.71	Evan Stewart, ZIM
371.94	Temmy Kusuma, INA
370.41	Emerson Neves, BRA
344.19	Regis Carrera, BRA
313.02	Husain Noor, INA

10-METER PLATFORM

Finals	Jan. 13
626.79	Shuwei Sun, CHN
603.61	Xong N, CHN
580.68	Georgi Tchogovadze, URS
569.37	Jan Hempel, GER
546.12	Fernando Platas, MEX
544.92	Robert Morgan, GBR
513.00	Matt Scoggin, USA
508.89	Patrick Evans, USA
502.86	Michael Kuetne, GER
499.86	Bruno Fournier, CAN
484.80	Craig Rogerson, AUS
482.10	Vladimir Timoshin, URS
Prelims	Jan. 12
614.67	Sun Shuwei, CHN
593.64	Vladimir Timoshin, URS
588.45	Matt Scoggin, USA
583.11	Patrick Evans, USA
567.81	Robert Morgan, GBR
566.55	Xong N, CHN
556.74	Jan Hempel, GER
548.13	Michael Kuetne, GER
539.37	Georgi Tchogovadze, URS
520.65	Craig Rogerson, AUS
515.24	Fernando Platas, MEX
513.54	Bruno Fournier, CAN
492.96	Frederic Pietre, FRA
488.91	Michael Murphy, AUS
481.14	Kenta Kaneto, JPN
480.15	Ole Johnny Aasen, NOR
478.58	David Bedard, CAN
476.58	Jeff Arbon, GBR
472.14	Jon Grunde Vegard, NOR
467.64	Rafael Alvarez, ESP
466.50	Jorge Mondragon, MEX
431.04	Yung-I Song, PRK
430.02	Alessandro de Botton, ITA
415.95	Jose Gil, ESP
410.58	Juergen Richter, AUT

SYNCHRO

SOLO

Finals	Jan. 7
201.013	Sylvie Frechette, CAN
196.314	Kristen Babb, USA
195.110	Mikako Kotani, JPN
192.520	Oiga Sedakova, URS
188.243	Karine Schuler, FRA
182.094	Maria Elena Gust, VEN
181.443	Marolyn Both, HOL
179.163	Paola Celli, ITA
Final Routine	Jan. 7
99.480	Sylvie Frechette, CAN
98.880	Kristen Babb, USA
98.560	Mikako Kotani, JPN
96.520	Oiga Sedakova, URS
95.960	Karine Schuler, FRA
92.880	Paola Celli, ITA
92.360	Marolyn Both, HOL
91.960	Maria Elena Gust, VEN

Prelims

98.360	Sylvie Frechette, CAN
98.160	Kristen Babb, USA
97.720	Mikako Kotani, JPN
94.840	Oiga Sedakova, URS
94.800	Karine Schuler, FRA
91.080	Paola Celli, ITA
89.920	Marjolyn Both, HOL
89.880	Monika Mueller, GER
89.240	Beatriz Muehlen, AUT
89.160	Sonia Cardenas, MEX
88.040	Maria Elena Gust, VEN
88.680	Tan Min, CHN
88.480	Claudia Pecznika, SUI
88.320	Virpi Jolli, FIN
87.800	Eva Lopez, ESP
87.600	Semion Rohoff, AUS
87.320	Sarah Marie Northey, GBR
86.040	Cristiana Lobo, BRA
85.760	Yeon Lee, KOR
82.720	Mandy Zukerman, NZL

Figures

101.533	Sylvie Frechette, CAN
97.434	Kristen Babb, USA
97.550	Mikako Kotani, JPN
96.000	Oiga Sedakova, URS
92.283	Karine Schuler, FRA
90.734	Maria Elena Gust, VEN
89.083	Marolyn Both, HOL
87.216	Sonia Cardenas, MEX
87.133	Tan Min, CHN
86.283	Paola Celli, ITA
85.717	Beatriz Muehlen, GER
85.151	Claudia Pecznika, SUI
84.283	Monika Mueller, GER
83.633	Sarah Marie Northey, GBR
83.583	Eva Lopez, ESP
83.567	Semion Rohoff, AUS
81.516	Cristiana Lobo, BRA
80.433	Yeon Lee, KOR
80.034	Virpi Jolli, FIN
75.933	Mandy Zukerman, NZL

DUET

Finals	Jan. 8
199.762	United States
194.307	Japan
192.649	Canada
192.269	Soviet Union
188.367	France
179.100	China
178.740	Italy
178.718	Mexico
Final Routine	Jan. 8
99.520	United States
96.840	Japan
97.840	Canada
97.160	Soviet Union
96.400	France
92.840	Italy
92.360	Mexico
91.600	China

Prelims

98.960	United States
98.400	Japan
97.760	Canada
95.800	France
95.600	Soviet Union
92.440	Italy
90.960	Mexico
90.840	Switzerland
89.600	Great Britain
89.600	Netherlands
89.200	Germany
88.960	Spain
88.320	China
87.880	Brazil
87.400	Australia
87.200	Korea
85.040	Sweden
83.080	New Zealand

TEAM

Finals	Jan. 12
196.144	United States
193.259	Canada
189.753	Japan
188.204	Soviet Union
182.885	France
179.835	China

176.649	Italy
176.773	Great Britain
Final Routine	Jan. 12
96.640	United States
96.280	Canada
96.480	Japan
96.800	Soviet Union
96.560	France
94.600	China
93.920	Italy
92.200	Great Britain
Prelims	Jan. 10
195.584	United States
192.579	Canada
189.593	Japan
187.804	Soviet Union
187.760	France
179.555	China
178.289	Italy
174.873	Great Britain
174.188	Netherlands
174.073	Switzerland
170.219	Australia
168.408	Spain
156.222	New Zealand

WATER POLO

WOMEN

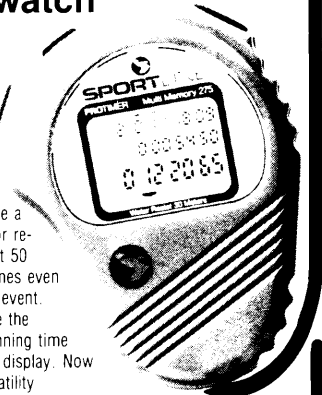
PRELIMS	Jan. 4
9-7	Canada-France
10-6	Germany-New Zealand
6-7	United States-Australia
	Jan. 5
9-8	Holland-Germany
15-4	Germany-France
20-2	Hungary-Braz
	Jan. 6
10-8	Hungary-Australia
16-9	Holland-France
13-4	Canada-New Zealand
	Jan. 8
11-10	Holland-New Zealand
10-5	Canada-Germany
2-1	Australia-Braz
10-8	Hungary-United States
	Jan. 9
9-6	New Zealand-France
13-9	Holland-Germany
14-0	United States-Braz

LONG DISTANCE

11:9	Germany-Braz
11:3	Australia-New Zealand
9:6	Holland-United States
8:11	Canada-Hungary
FINAL	Jan. 12
9:4	New Zealand-Braz
9:8	Austria-Germany
	Bronze Medal Game
11:9	United States-Hungary
	Gold Medal Game
13:6	Holland-Canada
FINAL TEAM STANDINGS	
Holland	
Canada	
United States	
Hungary	
Australia	
Germany	
New Zealand	
France	
Braz	

TOTAL RECALL

50 Memory Stopwatch



- Press a button, take a dual split or recall the last 50 split lap times even during the event.
- Always see the current running time on bottom display. Now that's versatility
- Automatic lap counter
- Designed and built for your hand
- Unique triple display that's truly professional
- Instant presettable countdown timer to all sports
- Multimemory and water tight to 30 meters
- Sportline's newest and best stopwatch
- Actual size W 2 3/4" x L 3 1/2" x D 1" • Model #275

To order call anytime for VISA MC

1-800-234-1770

Or send \$49.95 (plus \$3.00 S&H) to

KNR ASSOCIATES

1307 Hickory St., Onalaska, WI 54650

Satisfaction guaranteed

WI residents add sales tax

Other stopwatches from \$14.95

Send \$1 for brochure

BACK ISSUES

Swimming World (monthly)

\$4.00 within the U.S.A., \$4.50 outside the U.S.A.

Annual (December) and Olympic issues: \$5.50

1960	APR, MAY, JUNE, JULY, AUG, SEPT, OCT, NOV, DEC
1961	JUNE, JULY, AUGUST only
1962	All available except JAN, FEB, DEC
1963	FEB, MAR, JUNE, NOV only
1964	MAR, APR, JUNE, AUG, OCT, NOV, DEC
1965	All available except MAR
1966	MAR, MAY, JUNE, JULY, SEPT, NOV, DEC
1967	All available except JAN, APR, DEC
1968-71	All available
1972	All available except FEB, APR, AUG
1973-75	All available
1976	All available except APR, SEPT, NOV, DEC
1977	All available except APR
1978	All available except JAN, MAR, SEPT
1979	All available except DEC
1980	All available except JAN, NOV, DEC
1981	FEB, MAR, APR, MAY, OCT only
1982	All available
1983	All available except OCT
1984	All available except MAY, JUNE
1985-90	All available

Swimming Technique (quarterly)

\$5.00 within the U.S.A., \$5.50 outside the U.S.A.

1964	All available except FALL
1965-67	All available
1968	WINTER and SPRING only
1969	All available except WINTER
1970	All available except SPRING
1971	All available
1972	All available except WINTER
1973-75	All available
1976	All available except FALL
1977	All available except WINTER
1978-79	SPRING and FALL only
1980-83	All available
1984	FEBRUARY and JULY only
1985	FEBRUARY and MAY only
1986	FEBRUARY only
1987-90	All available except FEBRUARY, 1988

Send to: Swimming World, P.O. Box 45497, Los Angeles, CA 90045.

Dr. Gary Hall's New UltraGuardTM Sunglasses



The first medically designed sunglasses by eye surgeon and 3-time Olympian, Dr. Gary Hall, for maximum sun protection. The unique UltraGuardTM lens is scientifically formulated to block all the harmful direct sunlight and the highly reflected sunlight from water surfaces. Lightweight with adjustable temple, these are the safest and most comfortable sunglasses you'll ever own!

"Since I have begun wearing your product, I cannot be comfortable in anything else." —
John Naber, 1976 Olympic swimmer.

Adults: First Pair (\$49.95)

___ Pilot ___ Eagle/ ___ Black ___ Frost \$ _____

Second Pair (\$39.95)

___ Pilot ___ Eagle/ ___ Black ___ Frost \$ _____

Children: First Pair (\$27.95)

___ Eagle Jr. Only / ___ Black ___ Frost \$ _____

Second Pair (\$19.95)

___ Eagle Jr. Only / ___ Black ___ Frost \$ _____

(Each pair comes with a detachable neck cord, deerskin chamois and padded carrying case!)

Total for Sunglasses \$ _____

AZ residents add 6.7% sales tax \$ _____

Shipping/Handling \$ 3.50

TOTAL AMT. OF ORDER \$ _____

___ Check enclosed for \$ _____

___ Charge \$ _____ to my ___ MC ___ Visa ___ Discover

Card Acct. # _____

Signature _____

Name _____

Address _____

City/State/Zip _____

Phone (____) _____

Mail your order to: Gary Hall, M.D. Total Sun Protection
2501 North 32nd Street
Phoenix, AZ 85008

OR PHONE TOLL FREE: 1-800-762-4416

30 DAY MONEY BACK GUARANTEE

MARCH

7-10	Cambridge, MA	New England Senior Champs.	
8-10	Cedar Rapids, IA	Age Group/Senior Champs, sc	319-364-7534
8-10	Glen Ellyn, IL	Illinois Junior Olympics	708-469-9009
8-10	Greensboro, NC	Central AG Region Qualifier	
8-10	Lenoir, NC	Western AG Region Qualifier	
8-10	Raleigh, NC	Eastern AG Region Qualifier	
8-10	Ralston, NE	Team Nebraska Sub LSC Cuts	402-333-7405
8-10	Mt. Kisco, NY	Mt. Kisco "A-B-C"	516-736-6422
9	Bethpage, NY	Bethpage Meet	516-736-6422
9-10	New Castle, DE	Wilmington Aquatic Club "B-C"	302-655-5501
9-10	North Palm Beach, FL	"Q" Time Age Group, sc	
9-10	Covington, KY	KCC Mary Lou's Mini Meet	606-441-2780
9-10	Middleburg Heights, OH	BMSC Last Chance Meet	216-886-5328
9-10	Worthington, OH	WOR Barbara Kay Mini Meet	614-846-9256
10	Bayonne, NJ	Bayonne Starfish "C" Pentathlon	201-436-1219
13-16	TBA	NCAA Division II Champs	913-384-3220
14-16	Atlanta, GA	NCAA Div. III Women's Champs	913-384-3220
14-17	Nashville, TN	Senior Region III Championships	
15-16	Cleveland, OH	Lake Erie District Championships	216-779-5062
15-17	Clovis, CA	Clovis Senior "Q"	209-432-8094
15-17	Hockessin, DE	Middle Atlantic Championships	
15-17	Boca Raton, FL	Florida Gold Coast Senior Champs.	
15-17	Dartmouth, NH	New England Silver Classic	
15-17	Omaha, NE	Midwestern 14&U Championships	402-462-5941
15-17	Trenton, NJ	New Jersey Junior Olympics	201-464-0574
15-17	Newburgh, NY	Newburgh T/F	516-736-6422
15-17	New York, NY	Columbia "A-B-C"	516-736-6422
15-17	Schneckady, NY	Adirondack District Junior Olympics	518-899-4402
15-17	Cincinnati, OH	Ohio "AA" Championships	513-761-3320
16	Broward, FL	Broward County "BC" AG, sc	
16	Delray Beach, FL	Palm Beach County "BC" AG, sc	
16	Miami, FL	Dade County "BC" AG, sc	
16-17	Minneapolis, MN	Midwestern 14&U "AA+" Champs	612-888-7913
16-17	Asheville, NC	"C" States—Western Division	
16-17	Greenville, NC	"C" States—Eastern Division	
17	New Castle, DE	Wilmington Aquatic Club Mini Meet	302-655-5501
21-23	Atlanta, GA	NCAA Div. III Men's Champs	913-384-3220
21-23	Indianapolis, IN	NCAA Div. I Women's Champs	913-384-3220
21-24	Charlotte, NC	Southern Region Age Group Champs	
22-24	Plantation, FL	Florida Gold Coast JOs, 14&U, sc	
22-24	Ambler, PA	Middle Atlantic Junior Olympics	
23-24	Little Rock, AR	Arkansas Age Group Champs.	501-227-7946
23-24	Bridgewater, NJ	"B" Age Group Championships	201-722-6389
23-24	Connetquot, NY	Connetquot Unclassified	516-736-6422
24	Staten Island, NY	Staten Island scm	516-736-6422
26-30	Buffalo, NY	USS National Junior Olympics	719-578-4578
26-30	Milwaukee, WI	USS National Junior Olympics	719-578-4578
28-30	Austin, TX	NCAA Div. I Men's Champs	913-384-3220

APRIL

3-7	Federal Way, WA	USS/Phillips 66 Spring Nationals	719-578-4578
4-6	Buffalo, NY	Eastern Zone Age Group Champs	
4-7	San Jose, CA	Far Western Championships, sc	408-928-5435
5-7	Canton, OH	YWCA JR/SR Championships	216-833-8788
5-7	Nashville, TN	Southeastern District II Champs	615-822-3202
6	Hempstead, NY	Trots Finmen "C"	516-736-6422
6-7	Pleasanton, CA	Pleasanton Sea Hawks "B-A+", sc	415-VIP-SWIM
6-7	San Jose, CA	South Valley ST "B-A+", sc	408-224-1778
6-7	Hockessin, DE	Team Delaware "B-C" Champs	
6-7	Trenton, NJ	"C" Age Group Championships.	609-737-5027
7	Mt. Laurel, NJ	Mini Meet Championships	609-234-5898
13	Fort Lauderdale, FL	Broward/Dade "ABC" AG, sc	
13	Stuart, FL	Palm Beach "ABC" AG, sc	
14	Staten Island, NY	Staten Island scm	516-736-6422
16-19	Orlando, FL	YMCA National Champs.	317-964-3185
19-21	St. Louis, MO	Rockwood Spring "ABC", sc	314-458-2868
19-21	Gastonia, NC	GCAC AG/SR Open Invitational	
20	Wellington, FL	8&Under Invitational, sc	
20-21	Reedley, CA	RCA "ABC", sc	209-897-7337
20-21	Hempstead, NY	Trots Finmen "A-B"	516-736-6422
27	Porterville, CA	Porterville "ABC", sc	209-568-2914
27-28	New Castle, DE	Wilmington Aquatic Club "A-B-C"	302-655-5501
27-28	Chapel Hill, NC	North Carolina-Virginia Select	

MAY

2-4	Cupertino, CA	Calif. Comm. College Champs	916-444-8641
4	Norman, OK	Cleveland County Y Unclassified	405-364-4591
4-5	Tulare, CA	Tulare "ABC", sc	209-688-9440
4-5	Boca Raton, FL	"AB" Age Group, lc	
4-5	Goldsboro, NC	Goldsboro "B" Invitational	
4-5	Omaha, NE	OSAC Early Bird "A-B"	402-339-2686
11	Emmaus, PA	Emmaus Mini Meet, 8&U	215-391-0363
11-12	Shelby, NC	SAC "B" Meet	
17-19	Raleigh, NC	Good Stuff AG/SR "A" Invitational	
18	Coral Gables, FL	Dade County "BC" Age Group, sc	
18	Lake Worth, FL	Palm Beach "BC" Age Group, sc	
18	Plantation, FL	Broward "BC" Age Group, sc	
18	Moore, OK	Moore Aquatic Club Unclassified	405-364-4591
18-20	Vancouver, Canada	Hyack Festival LC Meet	604-536-4123

CALENDAR

19-26	Andorra	Games of Small Countries-Europe	
24-26	Hawaii	17th Soichi Sakamoto Champs.	808-871-4516
25-26	Omaha, NE	Team Nebraska "A-B"	402-333-7405
25-27	Clovis, CA	Clovis Long Course	209-432-8094
25-27	Boca Raton, FL	Senior Invitational, Ic	

JUNE

1-2	Exeter, CA	Sierra "ABC", sc	209-592-5945
1-2	Miami, FL	Broward Dade "AB" Age Group, Ic	
1-2	West Palm Beach, FL	Palm Beach "AB" Age Group, Ic	
1-2	Lenoir, NC	CCST "B" Invitational	
1-2	Sanford, NC	SLSC "B" Invitational	
1-2	Tulsa, OK	SwimTulsa Unclassified	
7-9	Little Rock, AR	Spring Splash Invitational	501-227-7946
7-9	Omaha, NE	Omaha Westside NTS	402-334-8989
8	Grand Island, NE	Norm Hayman Invitational "BC"	308-485-4818
8-9	Ponca City, OK	Ponca Sailfish "ABC"	405-364-4591
13-16	Hawaii	Aloha State Games	808-522-0700
14-16	Merced, CA	Merced "ABC", Ic	209-722-6052
14-16	Tallahassee, FL	ATAC Long Course Open	904-644-1091
14-16	Des Moines, IA	DMSF "A B", Ic	515-226-9853
14-16	High Point, NC	HPSC AG SR "A" Invitational	
14-16	Raleigh, NC	TAR AG SR "A" Invitational	
14-16	North Platte, NE	North Platte "A-B-C"	308-532-8502
15-16	Bettendorf, IA	BETT "ABC+", 8&U "A B" Open	319-399-5766
15-16	Enid, OK	Aquatic Club of Enid "A", "BC"	405-364-4591
16-17	Brookings, SD	Brookings Invitational	605-692-8183
21-23	Fort Lauderdale, FL	"Q" Time Age Group, Ic	
21-23	Lincoln, NE	NA Great Plains Invit. "A-B-C"	402-473-6464
22-23	Visalia, CA	Sequoia "ABC", sc	209-733-3104
22-23	Mason City, IA	MCSC ABC+, Ic	515-424-8458
22-23	Hickory, NC	HSST "B" Invitational	
22-23	Cozad, NE	Cozad Eustis "B-C"	308-784-4212
22-23	Aberdeen, SD	Aberdeen Invitational	605-229-5819
22-23	Plano, TX	"A B" and 15&O "C"	214-985-7665
23	Monticello, IA	MONT "B C", 8&U "A B C", Ic	319-465-5672
27-30	Charlotte, NC	MAC Ultra Swim Senior Meet	
28-30	Fort Lauderdale, FL	Senior Invitational, Ic	
28-30	TBA, NC	North Carolina State Games	
28-12	Athens, Greece	XI Mediterranean Games	
29	Coral Springs, FL	Broward "BC" Age Group, sc	
29	Morth Miami, FL	Dade "BC" Age Group, sc	
29	Stuart, FL	Palm Beach "BC" Age Group, sc	
29-30	Vinton, IA	VACL "B C" Open, 8&U "A", scm	319-472-4300
29-30	Broken Bow, NE	Broken Bow "A-B-C"	308-872-3396
29-30	Omaha, NE	Metro Omaha "B-C"	402-592-6830
29-30	Norman, OK	Sooner Swim Club "AB"	405-364-4591
29-30	Yankton, SD	Yankton Invitational	605-665-6649

MASTERS

MARCH

10	Pasadena, CA	Cal Tech Pentathlon	714-581-1135
16	Edina, MN	Southdale YMCA Meet	612-941-5557
16-17	Atlanta, GA	Dynamo Swim Club Masters Meet	404-497-1901
17	Midland, MI	Midland Masters Meet	517-832-9628
23	Irvine, CA	Southern Pacific Masters Meet	714-581-1135

APRIL

5-7	St. Petersburg, FL	21st Annual Harold Ferris, scy	813-896-0250
7	Carlsbad, CA	San Diego Imperial Pentathlon, scm	619-275-1292
7	Santa Monica, CA	Southern Pacific Masters Meet	714-581-1135
13-14	Kalamazoo, MI	Michigan Masters State Meet	616-345-9622
13-14	Minneapolis, MN	Minnesota Masters State Champs.	612-784-7020
14	San Diego, CA	SDI Short Course Yards	619-275-1292
21	Los Angeles, CA	SPMA Regionals (long events)	714-581-1135
27-28	Los Angeles, CA	SPMA Regionals (all events)	714-581-1135
27-28	Minneapolis, MN	Masters Indoor Championships	317-237-5252

MAY

12	San Diego, CA	SDI Short Course Yards	619-275-1292
16-19	Nashville, TN	Masters Short Course Nationals	615-353-1632
26	Coronado, CA	SDI Pentathlon, Ic	619-275-1292

DIVING

MARCH

15-17	Moscow, URS	Four-Nations Meet Alamo Challenge	317-237-5252
-------	-------------	-----------------------------------	--------------

APRIL

5-7	Zone Sites	Phillips 66 Preliminaries	317-237-5252
17-21	Minneapolis, MN	Phillips 66 Championships	317-237-5252

MAY

1-5	Winnipeg, Canada	VII FINA World Diving Cup	317-237-5252
8-12	TBA	Alamo International	317-237-5252
16-19	TBA	Torneo de Clavados	317-237-5252

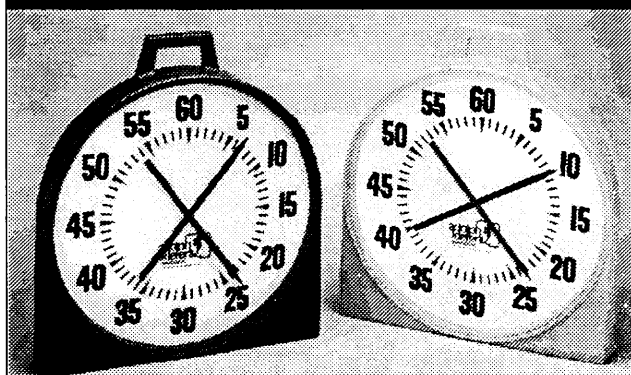
CHO-PAT, INC.



SWIMMER'S UPPER ARM STRAP

The Cho-Pat Swimmer's Arm Strap helps prevent the pulling and tearing of tendon fibers experienced by the high percentage of competitive swimmers who develop bicipital/tricipital tendonitis. Stay active—wear our strap while engaged in swimming and water sports' activities. Coaches... don't wait until your swimmers develop this problem and waste your/their efforts. To order, call 1-800-221-1601 or write: P.O. Box 293, Hainesport, NJ 08036. In N.J., call 609-261-1336 M-F 9AM-5PM EST. (Have above bicep circumference measurement before ordering.)

Set The Pace!



The New Kiefer 31" Pace Clock

The revolutionary round design and large numerals make the Kiefer pace clock extremely visible from any distance. Available in both battery & electric, wall mount or floor mount. Ideal for workouts, lap swimming and water polo. Blue or Yellow.

Wall Model - \$178.50 Floor Model - \$191.50

Please Specify Color & Battery or Electric



**1750 Harding Road
Northfield, IL 60093
708-446-8866
800-323-4071**

Please send Calendar of Event listings to: Calendar of Events, Swimming World, 116 W. Hazel St., Inglewood, CA 90302. Include the name of the meet, dates it will be held, and a contact name, address, and phone number. All submissions should reach our office *at least* four months prior to the date of the meet.

Classified Ads

CLASSIFIED ADVERTISING Rates and Regulations

Prices will be based upon:
Each column inch (1") **\$40.00**
Each additional inch **\$35.00**

Minimum charge one inch. These prices for all classified ads.

Payment must accompany order. No agency discount.

DEADLINE: 1st day of the month preceding date of issue. Artwork and logos not accepted. Box numbers furnished on request for \$6.00 monthly, **PREPAID**.

All advertising is accepted and edited at the discretion of the magazine. Advertising offering products for sale will not be accepted. Send ad copy to: Toni Blake, Swimming World Magazine, 116 W. Hazel Street, Inglewood, CA 90302.

HELP WANTED

POOL DIRECTOR & LAKE DIRECTOR

Children's coed resident summer camp. Pocono Mountains, Pa. Excellent facilities, heated pools qualified instructors to run swimming or lakefront program (WSI, lifeguarding certificates), swimming, scuba, sailing, kayaking, waterskiing. Top salary. Box 182, Wyncote, PA 19095; 215-572-8222.

WATERFRONT DIRECTOR

Certified Red Cross Waterfront Director and WSI Swim Instructors needed for coed camp in Vermont. May move in June 1. Camp begins mid-June through Aug. 17, 1991. Family accepted. Salary negotiable. Call collect 718-899-1710 after 4:00 p.m. EST.

SWIM DIRECTOR

Prestigious lakefront camps in Maine seeking mature people to direct all aspects of lakefront programs—WSI a must. Also seeking capable fun-loving staff—WSI or ALS helpful. Our skiing, sailing, canoeing and swimming programs are tops in the USA. Best salaries. Contact: Youth World, 10 Old Court Road, Baltimore, MD 21208.

AQUATICS DIRECTOR

School district with a new pool and an existing extremely strong swim program seeks a Director of Aquatics. The director will be responsible for operations of the pool facility including management, coaching, scheduling, and total pool supervision. Requirements include a valid Indiana teacher's certificate with a major in physical education, swim experience, coaching experience and experience in managing pool facilities. Competitive salary, 30K-40K+. Complete benefit package is also included. Position available August 1991. An equal opportunity employer. Send letter of interest or call: Dr. John H. Emhuff, Asst. Supt.-Instruction, MSD of Mt. Vernon, Mt. Vernon, IN 47620; 812-838-4471.

WATERFRONT DIRECTOR/COUNSELORS

Needed with WSI's for boys' and girls' summer camps in beautiful Massachusetts Berkshires Mountains. Excellent salaries. Must enjoy children and teaching. Contact Action Camping, 190 Linden Ave., Glen Ridge, NJ 07028; 1-800-753-9118.

PROGRAM DIRECTOR, COMPETITIVE AQUATICS

1:30 p.m.-9:30 p.m. Monday-Friday; \$18,000 per year. Required is a Bachelor of Science degree in Physical Education which must include one (1) course in Swimming Theory, and applicant must have two (2) years experience in job offered or two (2) years experience as a coach of an age group swim team. Direct and develop a Competitive Aquatics Program within a non-profit Christian organization including an age group (7-18 years) Winter Swim Team, an age group Summer Swim Team, a year-round Masters Swim Team and a Youth Physical Education and Adult Physical Fitness Program. Provide an educational, fun and sportsman-like Competitive Aquatics Program in relation to the organization's philosophy. Plan an annual operating budget for the Competitive Aquatics Program. Hire and supervise assistant coaches for the program. Develop method, procedures and goals for each swim team and confer with staff to explain program and individual responsibilities. Direct and coordinate, personally or through assistant coaches, regular practice sessions. Teach proven stroke techniques to swim team members. Complete related paperwork including team records, meet entries and best times. Review team and individual accomplishments to insure progress toward specified swim team goals and modify methodology as required to redirect activities to attain objectives. Work with Physical Director to develop and direct other organizational programs and special events. Send resume to: Fox Valley Job Service, Harry Hanish, Order #0379174, 1313 Midway Rd., Menasha, WI 53592. Employer-paid ad.

SEEKING EXPERT IN THE FIELD

Rewarding grass-roots experience for skilled, self-motivated individual. Exciting career challenge entails diversified duties and international travel. Unique opportunity for self-fulfillment and chance to be your own boss. The toughest job you'll ever love. Call Peace Corps, 1-800-424-8580, ext. 93.

SWIM DIRECTORS AND WSI'S

Beautiful Northern Minnesota brother/sister camps on scenic, secluded lake, seeking qualified individuals who are looking for exceptional work environment. Must enjoy working with children in an outdoor setting. Windsurfing, sailing and waterskiing instructors also needed. Contact: Camp Thunderbird, Dept. SW, 10976 Chambray Ct., St. Louis, MO 63141; 314-567-3167.

CAMP WEKEELA FOR BOYS/GIRLS

Canton, Maine. Seeks dynamic competitive swim coaches (age 20+) for its internationally recognized competitive swim program. June 17-Aug. 18, 1991. Spectacular facilities. U.S. swim camp with visiting swim coach program. WSI required. Over 65 activities. Contact Eric/Lauren Scoblionko, 130 S. Merkle Rd., Columbus, OH 43209; 614-235-3177.

COACH/COUNSELORS

Swimming coach (WSI) to run extensive pool program and college-age skilled counselors/instructors. Large co-ed NYS resident camp. 90 miles NYC. Contact Kutsher's Sports Academy, 35 Snowflake Lane, Westport, CT 06880; 800-724-0238.

POOL DIRECTORS AND STAFF

Three summer camps in the Shenandoah Mountains of West Virginia seek pool directors and staff. Director must have WSI and pool maintenance experience. Staff must have WSI or ALS. Great chance to a young person to grow with us. Finest equipment and best salaries in camping. Contact: Youth World, 10 Old Court Road, Baltimore, MD 21208.

GRADUATE ASSISTANT

Want a quality coaching experience while earning the M.S. degree in Physical Education? Ithaca College seeks qualified applicants to assist with men's and women's varsity swimming and diving programs. Send inquiries to Dr. Patricia Frye, Graduate Physical Education, Ithaca College, Ithaca, NY 14850.

ASSISTANT COACHES

Swim where you ski! Near Mammoth Mountain! Bishop Swim Team needs assistant coaches April-August. Send resume to BST, P.O. Box 1, Bishop, CA 93514; 619-873-7097.

HEAD SWIM COACH JAKARTA, INDONESIA

The parent-sponsored Aquadragons Swim Team of the Jakarta International School invites applications for the position of Head Swim Coach, starting Aug. 15, 1991. The team has a membership of more than 100 swimmers who swim a competitive age group program during the whole school year. Apart from the coaching, the position requires part-time teaching. Applicants must have experience in running a competitive swim program on an elementary to intercollegiate level and have middle or high school teaching qualifications. The position offers an opportunity to work in an interesting international environment with highly-motivated children and young adults. Renumeration includes annual travel to and from Indonesia and free housing. Please address your application with C.V. and references to: The Selection Committee, JIS Aquadragons, P.O. Box 79/JKS, Jakarta 12430 Indonesia.

SWIMMING WORLD and JUNIOR SWIMMER

CLASSIFIED ADVERTISING LOW COST—FANTASTIC RESULTS

PRINT COPY IN SPACE BELOW

**AD WILL RUN WHEN PAYMENT IS RECEIVED!
AD DEADLINE FOR COPY IS 5th OF EACH MONTH**

AD SIZE	NO. OF INSERTIONS	COST

The most up-to-date & usable science and training information currently available

2nd ANNUAL LONGHORN SWIMMING CLINIC

MAY 3 - 5, 1991

The University of Texas at Austin

Sponsored by
The FINALS

The best coaches & scientists in the sport today will speak on crucial topics of workout methodology, strength training, biomechanics, and elite athlete physiology.

ASCA
accredited

Eddie Reese

UT Men's Coach
Three straight NCAA Titles
U.S. Olympic Coach

Dr. Ernie Maglischo

Author of *Swimming Faster*
World authority on swimming
biomechanics

Mark Schubert

UT Women's Coach
Sixty National Titles
U.S. Olympic Coach

Dr. Jack Wilmore

World renowned Exercise
Physiologist & UT Professor

Randa Ryan

Exercise Physiologist & UT Women's
Performance Team Director

Angel Spassov

UT Women's Strength Coach
Bulgarian National Coach

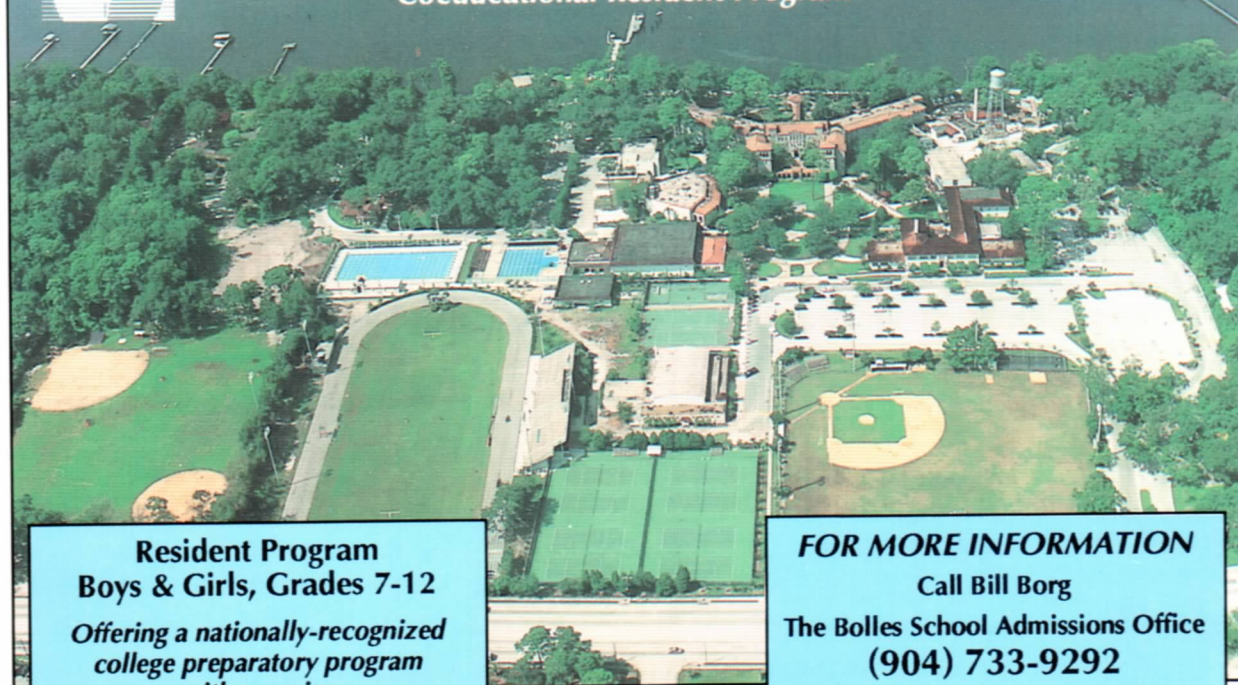
FOR HIGH SCHOOL, CLUB & COLLEGIATE COACHES, SWIMMERS & MASTERS SWIMMERS

Call Steve Klepfer at 512-471-7433 for more information & registration material



THE BOLLES SCHOOL

Coeducational Resident Program



Resident Program
Boys & Girls, Grades 7-12
*Offering a nationally-recognized
college preparatory program
with superior
facilities and programs in
academics and athletics*

FOR MORE INFORMATION

Call Bill Borg
The Bolles School Admissions Office
(904) 733-9292
7400 San Jose Boulevard
Jacksonville, FL 32217

SwimMart

This is our special MAIL-ORDER section designed for the advertiser with a product that can be used by swimmers, coaches and/or parents. Here are the details:

AD SIZE: 2-3/32" wide x 2-1/4" deep

DEADLINE: 30 days prior to cover date of next issue.

RATE: NOTE NEW PRICE! \$160.00 U.S. check or money order

MUST ACCOMPANY AD!

Let us put your ad together for you.

Call: **TONI BLAKE**—(213) 674-2120 or write: **SWIMMING WORLD/ SWIMMART**, 116 W. Hazel St., Inglewood, CA 90302

DO IT NOW and SAVE BIG



MEDALS Custom & Stock, finest quality, beautiful colors, precision workmanship. Min. order 100pcs.

• **PINS** Charms, Key Tags & Tie Tacks Gold, Silver or Bronze.

• **PATCHES** Custom Embroidery Choice of size, shape and up to 6 colors.

• **Call Us First....**

Toll Free USA: (800) 251-2656 TN: (615) 329-3007

GOLDNER ASSOCIATES inc.

1819 Charlotte Ave • Nashville, TN 37203



SwimT's
322 E. LINCOLN • ROYAL OAK, MI 48067
313-541-8060 1-800-541-8060

- BREASTSTROKE
- BACKSTROKE
- BUTTERFLY
- FREESTYLE

Each w/its own colorful design on WHITE only

T-SHIRTS \$14.00
L-S T-SHIRTS 15.00
(Michigan Res. add 4% tax)
Ship. & Hnding. \$2.50
(PER ITEM ORDERED)

OR CHECK
OR MONEY ORDER

50/50 blend

SCREEN PRINTED

WAS YOUR SUIT DISCONTINUED AGAIN?

IF YOU'RE TIRED OF THIS.....

CALL WATERWEAR

1-800-321-SUIT

ALL TEAM COLORS

CUSTOM TEAM SUITS 10 DAY DELIVERY

Just a fraction of what we spend on sports can help keep society in shape.

Just a small part of our extra time and money can have a big impact on society's problems. Millions of people have helped establish five percent of their incomes and five hours of volunteer time per week as America's standard of giving.

Get involved with the causes you care about and give five.

CROWN TROPHY
1 Odell Plaza
Yonkers, New York 10701 Dept. SW
800/227-1557 • In NY 914/963-0005

FREE 30" NECK RIBBON only 99¢ ea.

10 to 99	\$1.79
100 to 499	\$1.49
500 to 999	\$1.39
1000 & up	\$.99

2 1/4" DIECAST MEDAL

We'd like you to handle our **T's** at your next Swim Meet

All for Swimmers. All on Consignment.

SwimT's

800-541-8060

new from

Zoomers

build pecs, lats & triceps in the pool with:

FULCRUM: High Speed Pull Paddles

dramatically improve your kick by increasing ankle range of motion with:

The Rack

For info: 415-851-1408
FAX: 415-851-5605

USA
aqua tics

1990 DESIGNS OF SPEEDO® & ARENA®

1ST QUALITY SUITS

FEMALE LYCRAS—\$19.95
MALE LYCRAS—\$9.99

FAST ORDER HOT LINE!

TOLL FREE
1-800-445-USA1

BURNED OUT?
Swimman WATERPROOF®

Music/Communication Systems Can Relight the Fire

Hydrophonics offers a full line of WATERPROOF® personal stereo and communication systems designed especially to fit your specific needs and budget. Contact us today and start enjoying your workouts again!

- Simple, lightweight and fun to use
- Communication systems ideal for stroke instruction
- Full Money Back Guarantee if not completely satisfied

To get your free brochure call or write us today:
Hydrophonics, 16161 Nordhoff St., Ste. 107SW, Sepulveda, CA 91343; (818) 893-0788.

* Guaranteed waterproof to 10 feet.

James H. Burrill & Associates' **SwimMeet Program** for All Swim Meets

Version 3 does it all from entries to final results including Diving.

\$50.00 Complete!

For IBM PC or compatible. Write for trial disk to

James H. Burrill & Associates
P.O. Box 23
S. Deerfield, MA 01373-0023
(413) 665 - 8753

SwimMart

Swimmers Edge®

7532 Janes Ave. Woodridge, IL 60517

THEY'RE HERE!



METERS TO YARDS CONVERTERS

Quantity Prices Available

\$4.95 & shipping

Toll Free: 1-800-441-SWIM (7946)

EASY MEET is ... EASY!

Let your Apple II or IBM computer run your next meet!

- Replaces 10 to 20 volunteers
- Runs all types of meets (including Masters, Pentathlon, Dual)
- No computer knowledge required.

For information and free demo disk:
EASY MEET, P.O. Box 231, Milford, OH 45150
(513) 248-0590

SWIM BENCH



- ★ Increase power & endurance
- ★ Improve stroke technique & efficiency
- ★ Superior design & construction

BUCKLEY CO. For free brochure:
BROOKLINE NH 1-800-8"SWIMGYM"

INCREASE
POWER,
ENDURANCE,
TECHNIQUE
with

POOL BUDDY

The Competitive Swimmers Performance Advantage

SURPASSES ITS COMPETITION!

POOL BUDDY, INC.
5301 Carlisle Rd.
Dover, PA 17315

717-292-4871

Zoomers

HIGH SPEED TRAINING FINS ARE HERE!

P.O. Box 620476
Woodside, CA 94062

415-851-1408
FAX 415-851-5605

Only the finest Swim Software
Can Call Itself... **HYTEK**

For swimming people - not computer people!

For IBM-PC or compatibles

- TEAM MANAGER
- MEET MANAGER
- BUSINESS MANAGER
- WORKOUT MANAGER
- COMMUNK
- HEART MONITORS
- THE INTERFACE (for all timing consoles)

FREE DEMO

24 Hour
SUPPORT
and
Order Line
(301) 531-5111

Medicine Balls

All weather,
textured vinyl
No seams, patches
or plugs to fail

- ★ Get in shape to swim
- ★ Plyometric training
- ★ Protect against injury

Light Weight	Heavy Weight	Air Ball
\$28 ea.	\$55 ea.	\$35 ea.
2 lb., 4 lb., 6 lb.	8 lb., 10 lb., 12 lb.	26" diameter

Add 10% for freight and for CA 7.25% tax



D-Ball Mfg.
1933 O'Toole Ave., Suite A204
San Jose, CA 95131; Phone 408-435-8108
FAX 408-435-0894

SWIM 1000

Meet and Team
Management
Programs for
IBM PCs and
Compatibles

FAST — EASY — RELIABLE

Used at 100's of meets since 1982 including recreational, USS, HS, College, Masters, Pentathlons
Complete support for our users including computer hardware swim cards and other supplies
Write or call for sample outputs and demonstration disk

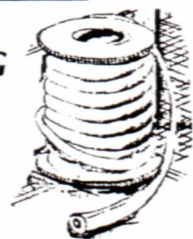
ProGrams Sports Software
Post Office Box 88340
Dunwoody, GA 30356-8340
1-800-SOS-SWIM • 404-698-9643

LANE GAINER

LATEX TUBING

For

- Dryland Training
- Swim Belts
- Paddles



(800) 443-8946

Lane Gainer Co., Box 6, Nashville, MI 49073

NEW micro-processor controlled PACER for the entire race...



1-800-562-3105



Pacer Products
942 APPLETON DRIVE
BATAVIA, ILL. 60510

ASK FOR FREE VIDEO TAPE DEMONSTRATION

- Automatically controls the progression of the cable lights thereby controlling the pace of the swimmer for the entire race
- Motivates and challenges swimmers of all ages
- Used by top coaches in the U.S. and abroad
- Completely safe, portable, and battery operated

The Swimmer's Connection

9113-A Executive Park Drive
Knoxville, Tn. 37923

Competitive prices
All major brands
Team discounts
Fast quality service
Monogramming
Screenprinting
Call for pricing



615-531-4736 1-800-545-7999
Owned and operated by Swim Parents

FREE VIDEO TAPE DEMONSTRATION of the COACH SCOPE and VIDEOSCOPE

- ★ Unequalled sub-surface viewing or video taping
- ★ Split Screen View (above & below water)
- ★ Starts-Turns-Strokes

Delphis Swim Products
P.O. Box 242
Carpinteria, CA 93013
(805) 684-1356



used at the 1988
Olympic Training Camp

SwimMart

SWIMMER'S ARM STRAP

Stay active!
Prevent painful swimmer's arm!
New product used by university swim teams. For details, see our display ad. Free brochure, call Cho-Pat, Inc.
1-800-221-1601 EST
609-261-1336 (NJ)

See display ad page 61



SWIM FASTER

Train with the choice of World Champions



- Totally Swim Specific
- Less Training Time
- Train year 'round at home!

1-800-488-VASA

the vasa swim trainer

372 Gov. Chittenden Rd. Williston, Vt. 05495 (81)

Free Goggle Engraving

Largest Selection Available

Full
Service
Swim
Store



Call
For Our
Free
Catalog

National Toll Free
1-800-329-0013
St. Pete, FL
(813) 822-7946



ULTIMATE SWIM SHOP

New Guys Off the Block



SPEEDO

WE SHIP
AROUND
THE GLOBE

SPEEDO

ULTIMATE SWIM SHOP
COMPETITIVE & FITNESS WEAR

1932 IRVING STREET, RAHWAY, NJ 07065

1-800-628-SWIM 908-388-3377 FAX 908-789-1381

INTRODUCING

- Weekly Results from Top College Dual Meets
- Men's and Women's
- 22 Issues, 4-6 pages, 1990/91 Season
- Upcoming Events • Recruiting Updates

TAPER & SHAVE
THE WEEKLY COLLEGIATE SWIMMING NEWSLETTER

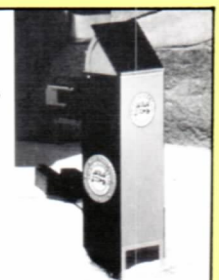
FAN Edition (Via 1st class mail) \$49 1 yr. - \$85 2 yrs.
PRO Edition (via FAX) \$149 1 yr. - \$250 2 yrs.
Send Name, Address, FAX with check to: **SWIMSTAT**, P.O. Box 192022, San Francisco, CA 94119-2022
Phone (415) 776-7651 FAX (415) 776-7828
FREE Sample Upon Request

SW1290

AQUA SCOPE . . .

Change your view of swimming

An underwater viewing and monitoring system used for teaching and analyzing technique.



Take advantage of our
SPECIAL Introductory Offer

Aquatic Academy CALL:
140 Carriage Way Dr.
Burr Ridge, IL 60521 **708-325-3340**
VISA - MC FAX 708-323-3346



B&B Sports, Inc.
1163 Colonnade Center
Manchester Road
St. Louis, MO 63131
314-821-SWIM
1-800-783-3228



Youth and Adult \$17.50 and up
Bro Ship + Handling \$3.00
Long American Add 5.725% MO. residents
Pipeline M.C. Visa Discover
Breakaway Also Speedo, Arena, TYR
Diamond Head I+ II and Hind merchandise

Patent Pending

THE SCOOP™

Maintain the "integrity" or "mechanics" of the four whole strokes while gaining all the benefits of variable resistance training.



- No interference during flip turns
- Forces swimmer into and off wall
- Excellent for kicking with kickboard and/or fins
- Three levels of resistance

Send \$34.95 check or money order to:
Scoop Dynamics Co.
800 Pacific Coast Hwy. #8, Suite 255
Redondo Beach, CA 90277
213-540-9455

Include \$3.00 handling/shipping
Allow 2-4 weeks for delivery

EMBLEMS & CAPS

- Custom made in the U.S.A.
- Save by ordering direct from leading manufacturer
- Orders from 50 to 5,000,000 pieces

For free brochure call **800/627-1802**.
Or write A-B Emblems, Caps & Custom Wearables, P.O. Box 20695, Weaverville, NC 28787.

CHOICE OF CHAMPIONS



A TOWEL FOR ALL SPORTS

Olympic Blue • Ice Pink • Aqua Green •
Fresh Peach • Lemon Yellow

16537 Harbour Lane
Huntington Beach, CA 92649

(714) 846-8679

THE WORLD'S MOST POWERFUL COACHING TOOL

Introducing the Seiko
Cal S120 Stroke/Stopwatch

- ★ Measures stroke frequency/tempo
- ★ Memory holds 100 split times
- ★ Complete stopwatch functions
- ★ Submersible, quartz movement
- ★ \$125.00 plus \$3.50 shipping



800 - 447 - 0440

Visa and MC accepted/send check
The Potomac Company
Dept. SW, 29908 S. Stockton
Farmington Hills, MI 48336
DEALER INQUIRIES INVITED

Over 4 Million Americans Will Need
A Blood Transfusion This Year.



We Are Counting On You To Care.
Give Blood.



AMERICAN ASSOCIATION OF BLOOD BANKS

THE VICTOR



ANNUAL SUIT SALE

NOW GOING ON—LIMITED TIME

NO MINIMUM • NO SHIPPING CHARGES
HIGH PERFORMANCE LYCRA RACING WEAR

THE VICTOR



FEMALE SUITS

Back Style: I.M. BACK

\$15⁹⁵

No Minimum/No Shipping Charge



- #9490 Black, Navy
- #9496 Black/Red
- #9499 Navy/Red/White

Sizes: 22-40

All colors available Spring '91.

FEMALE SUITS

I.M. BACK WITH A CLIP

\$15⁹⁵

No Minimum/No Shipping Charge



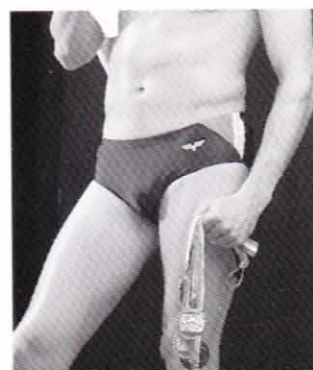
- #9430 Black, Navy, Royal
- #9435 Black/Red, Black/Gold, Black/Orange, Navy/Gold, Navy/White, Royal/Gold, Royal/White
- #9438 Navy/Red/White, Black/Green/Gold, Black/Green/White

Sizes: 22-40

MALE SUITS

\$9⁹⁵

No Minimum/No Shipping Charge



- #3430 Black, Navy, Royal
- #3436 Black/Red, Black/Gold, Black/Orange, Navy/Gold, Navy/White, Royal/Gold, Royal/White
- #3439 Navy/Red/White, Black/Green/Gold, Black/Green/White

Sizes: 24-38

EXPERIENCE COUNTS

During the 1972 Olympics while watching Mark Spitz do the unbelievable we were inspired to create a racing swim suit company that would also attain new heights.

By August 1976 we created The Finals. We set up the designs, the styles, the prices, the concept and the catalog. We ran the advertising, the purchasing, the production scheduling, order fulfillment, the order department out of our own home for the first six years.

In December 1984, when annual suit sales reached 600,000 suits, we left our partners with what we had created.

In April 1985 we began again from scratch to bring you the ultimate victor "The Victor." The 1991 Victor is well on its way back where we left off—helping you save time and money and supporting the programs that mean so much to swimming.

WHAT WE DO

We are dedicated to bringing the Swim Community the highest quality suits and supplies with the very best service and absolute best prices.

We manufacture The Victor High Performance Lycra Racing Wear. They are hand crafted of the same expensive material, that Speedo and Arena use, a special Dupont 128 yarn.

We even use an expensive elastic in our straps, while they use rubber; rubber cracks, rubber is cheap. Elastic won't crack, it will out last rubber, has excellent memory retention, elastic is expensive. We sew them more carefully, **intent on offering you the best made and most expensive racing suits, for about one half the retail prices everyone else charges.**

HOW WE DO IT

● **BIG SAVINGS** for you and your team are achieved by selling direct to you.

● **We do not sell stores.** We have cut out the middleman and have virtually cut prices in half.

● **IF YOU PAID MORE THAN:** \$15.95-Female Lycra, \$9.95-Male Lycra Suits **YOU PAID TOO MUCH!!!**

● **WHY PAY SO MUCH FOR SO LITTLE WHEN YOU CAN PAY SO LITTLE FOR SO MUCH.**

Save on 1 Female Suit \$10.00 to \$30.00 Save on 30 Female Suits \$300.00 to \$900.00

Just imagine what you could buy for \$900.00 Twenty Victor Parkas \$900

CALL TOLL FREE 1-800-356-5132 AND CHARGE IT

Our Reputation: Quality-Highest, Service-Fastest, Price-Lowest

WE GUARANTEE IT 100%

"No Shipping Charges" Offer Expires March 31, 1991

Action Accents	31
Analox Instruments	12
Anti-Wave	15
Bolles School	63
Bottom Line Aquatics	4
Camp and Clinic Ads	
Aggie Swim Camp	50
Ak-O-Mak/Chikopi	56
Arizona Sports Ranch	54
Camp Listings	44-49
Counselman	50
Longhorn Swimming	51
Pine Crest	5
San Diego, Univ. of	5
Terry Schroeder's Aloe-Up	52
Stanford	52
St. Edward's School	10
Texas, Univ. of (Clinic)	63
USC Trojan Swim Camp	53
Wekeela	57
Wolverine Swim Camp	53
Cho-Pat, Inc.	61
Finals, The	IFC-1, 7
Fitness Systems	38
Hind	3
KB Specialties	41
KNR	59
Adolph Kiefer & Associates	61
Knabe's Swim & Trophy	58
Leader	6
Meet Ads:	
LSU Aquatics	57
Southern California Swimming	36
Pine Crest School	43
Powerfood, Inc.	11
Red Oak Sportswear	68
Skyline Northwest Corporation	8
Speedo America	BC
Sportline	55
SwimMart	64-66
AB Emblems	
Aqua Scope	
B&B Sports & Swim	
Buckley Co.	
James H. Burrill & Assoc.	
Cho-Pat, Inc.	
Crown Trophy	
D-Ball Mfg.	
Delphis Swim Products	
Easy Meet	
Goldner Associates	
Hydrophonics	
HY-TEK	
Lane Gainer	
Pacer Products	
Pool Buddy	
Potomac Company	
ProGrams Sports Software	
Sammy, The	
Scoop Dynamics	
Swimmers Edge	
Swim Stat	
Swim T's	
Swim Zone	
Ultimate Swim Shop	
USA Aquatics	
Vasa	
Waterwear	
Zoomers	
Swimming World:	
Back Issues	59
Videos	33
G. Thrapp Jewelers	10
ruWest, Inc.	9
YR Sport, Inc.	IBC
UltraGuard Sunglasses	60
United States Swimming	29
The Victor	67
Warm Wind	22



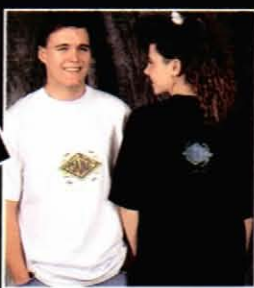
The logo for 'NAME OF THE GAME Swimming' is a shield-shaped emblem. At the top, the words 'NAME OF THE GAME' are written in a stylized, outlined font. Inside the shield, a swimmer is depicted in silhouette, moving through stylized waves. A thick red diagonal line crosses the entire shield from the top-left to the bottom-right. Below the swimmer, the word 'Swimming' is written in a large, flowing, cursive script. At the bottom right of the shield, there is a small circular logo with the letters 'E' and 'S' inside.

#Z765
Front print w/ small logo on back; black or white T-shirt

Front print w/ small logo on back; black or white T-shirt



Official "Name of the Game"
emblem imprinted on quality
100% cotton shorts with draw-
string & side pockets. Size S-XL.
(Colors: Black or Birch)



Official "Name of the Game" emblem imprinted on the front or back of every T-shirt.

Made in U.S.A.

or send order to: RED OAK SPORTSWEAR / P.O. Box 1059 / Glute, TX 77531

100% cotton T-shirt - \$14.95 ea. (specify Black or White) Sizes: LG (42-44), XL(46+)

100% cotton Short - \$16.95 ea. (specify Black or Birch) Sizes: S(28-30), M(32-34), L(36-38), XL(40-42)

QTY	DESIGN #	DESCRIPTION	STYLE	COLOR	SIZE	COST / UNIT	TOTAL

☐ VISA ☐ MASTERCARD ☐ MONEY ORDER ☐ CHECK

made payable to: **RED OAK SPORTSWEAR**

(All checks or Money Orders must be drawn on U.S. bank in U.S. dollars)

NAME _____
(as on card) (please print)

ADDRESS _____
(street addresses only - no P.O. boxes)

CITY _____ STATE _____ ZIP _____

VISA or MASTERCARD # _____ Customer Phone # (____) _____

[illegible][illegible][illegible]

Exp. Date: _____ Signature: _____

TX residents add 8 1/4% sales tax:

* Shipping / Handling

** HI, AK or outside U.S.A.

TOTAL ENCLOSED:

* Shipping / Handling for total

dollar amount.

\$35.00 - \$59.00 = \$6.00

\$60.00 - \$99.00 = \$ 8.00

* * Hawaii and Alaska add \$5.

outside U.S.A. add \$10.00



Shipping / Handling for total

dollar amount.

\$35.00 - \$59.00 = \$6.00

\$60.00 - \$99.00 = \$ 8.00

* * Hawaii and Alaska add \$5.

outside U.S.A. add \$10.00

Allow 3-5 weeks delivery
Minimum order \$25.00
No C.O.D.'s please
Dealer & Distributor
inquiries welcome

The 1,000,000 Yard Guarantee

If you are a serious swimmer or triathlete you know how critical drawcord function is to optimum performance. At TYR Sport we are so confident that our new drawcords will stay tied and will not slip, that we are guaranteeing them against slippage and breakage for 1,000,000 yards. Now you can avoid any surprises during crucial starts and turns and swim with the assurance that your suit won't literally let you down. Look for details about the 1,000,000 yard drawcord guarantee on specially marked TYR racing suits in better sporting goods and swim specialty shops.



To receive 1990 catalog send \$3.00 to

TYR SPORT INC.

PO Box 1007
Huntington Beach, CA 92647
(714) 897-0799

Canada:
9697 St. Laurent Blvd.
Montreal, Quebec H3L 2N1
Canada
(514) 385-5331



Stephen Boyles

WHERE THERE'S WATER THERE'S:

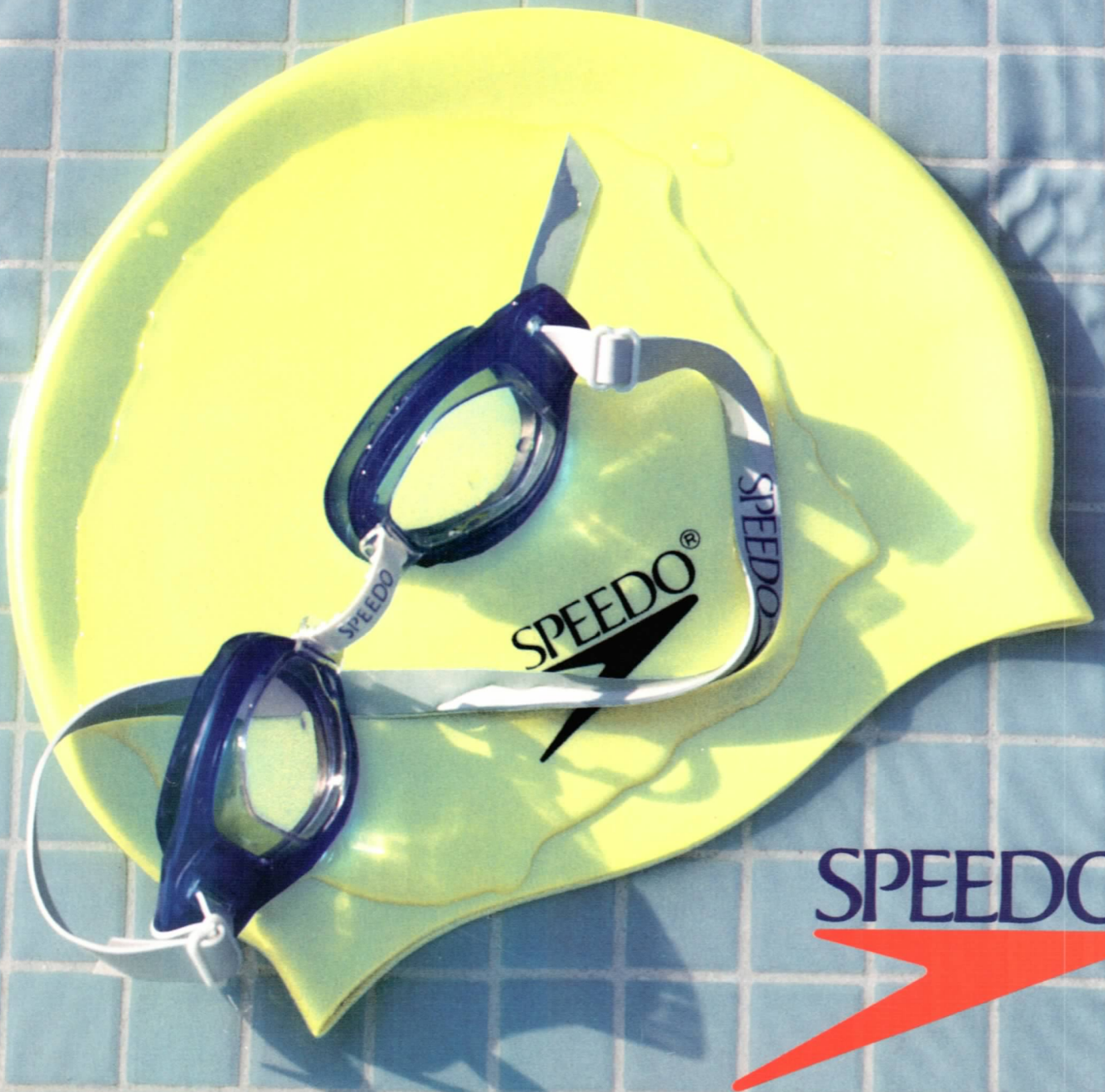
ANTRON/LYCRA

FABRICS MADE ONLY BY DU PONT

* - DU PONT REGISTERED TRADEMARKS

TYR IS A REGISTERED TRADEMARK OF TYR SPORT INC. USA

In Perth,
the winners of 22 Gold Medals
were wearing Speedo swimwear.
That's no mere coincidence.



SPEEDO®

The fact is when you're going for the gold, you need as much going for you as you can get.
And no other swimwear gives you a competitive edge like Speedo, the stuff that
great swimmers are made of.



ANTRON/DORA

Exclusive supplier of deck apparel to the U.S. National Swim Teams (1985-92). Supplier to U.S. Diving and U.S. Synchronized Swimming.
Speedo® America, Van Nuys, CA. Call 1-800-547-8770. Speedo® is a registered trademark and used under license from the Speedo International Group of Companies.