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BY JEFFREY GOOD - ST. PETE MASTERS (reprinted from LMSC Newsletter)

Ah, the electricity of a swim meet: Lycra warriors pacing the deck with knots in their guts, backstroke pennants snapping in the breeze, the crack of the starter's pistol. I'm not even tempted.

When I joined St. Pete Masters five years age at the age of 26, I told my teammates that I wanted to swim but not compete. They didn't believe me. "C'mon," they said, "you're one of the youngest people on the team. Look at all the people in their 70's who are racing. You don't want to be outdone by them do you?" Yep!

When I was a 7-year-old in Chicago, I begged my parents to let me join the Hinsdale swim team, one of the toughest age-group programs in the country. When I was 10, I studied the Guiness Gook of World Records and mapped out my route to becomming the youngest Olympic swimmer ever. I got up at 5:45 every morning, strapped on my goggles and dutifully logged the yards - often more than 10,000 a day. But after awhile, swimming became more a chore than a dream. I fantasized about the day when I could swim for pleasure instead of pain. Than day has come!

I have nothing but admiration for the hard-core contingent on St. Pete Masters. I even like to work out with them at times. But, like a lot of people who show up at North Shore pool, I don't want to be one of them. And the wonderful thing about St. Pete Masters is that there's room for people like me. Coach Bole will hand me a workout and tips on technique if I want them, but he'll also understand if my workout consists of imitating a manatee lounging on the lane lines.

Oh, about my Olympic career; it never came. I logged some minor glories: a medal here, a school recond there. But the trophies I cherish most are the kind that don't sit on a shelf; childhood swimming taught me the falue of fitness, and the virtue of pushing through pain to a goal. Those are lessons I've carried out of the pool and into adulthood. But you'll forgive me if I exercise some adult freedom of choice in the pool these days. That's me over there, floating on the kickboard and staring into the rising sun. UNSOLICITED CONTRIBUTION FROM ALLAN CARON (excerpts from the PNA Newsletter)

This is a completely unsolicited note from the trenches or, more accurately, the lanes. Actually lane 3, Bellevue Y, 6:30 am. Well, I lie somewhat. I usually wander in at about 6:35 am. Spending the next couple of minutes adjusting my goggles and cap. And finally somewhere in the middle of warmup, I take the plunge.

I'm not a very good swimmer..certainly not by my age group's standards. I console myself with the thought that someone has to be last (but in every event?). I am fortunate to have a couple of 40-45 women in my lane who keep me honost. Yes, I'd be quite competitive if I suddenly aged a few years and changed my sex. Fortunately, the top 8 places received medals at the last regionals. No one need know that my 5th place finish in the 200 breast was out of a field of five.

But, I suppose, participating in the meets does allow me to say with a straight face that I'm a "competitive swimmer". This is in my view a lot cooler than being a "competitive runner" these days. Runners ten to the skeletal. Competitive swimming evokes images of that 1972 poster of Mark Spitz among the people I still try to impress!

Meantime, I have taken the plunge and dive incatching a glimpse through the window of the pitch-black sky. Wondering to myself why it is that I willingly submit to this every weekday. There is no answer to that question..other than the incredible feeling of guilt I'd feel if I didn't make it to workout. I have enough problems, without having to feel guilty for the rest of the day.

For some reason, my psychology is my own worst enemy. I have a habit of constantly calculating not how much I've already done in a particular set but how much is left to do. Usually in terms of a fraction of the whole. So, there I am, a fairly unhappy camper already in the midst of, say, a 400 pull--not a particularly hard swim in and of itself. But I manage to psyche myself out after the first 100 by saying to myself: oh great, I'm already tired and I have to do the same thing without stopping 3 more times! No wonder I find myself making trips to the bathroom or faking a gagging attack or suddenly discovering that the watertight seal in my goggles need adjusting. But, oddly enough, I love swimming. Though I can't say the same for my wife.

OR Masters swimmer in record books

Oak Ridge Masters swimmer Janet Meservey recently earned a spot on the Long Course Top 10 ranking in five events.

From the list just published in January's Swim-Master magazine, the longtime Oak Ridger was ranked fourth in 200-meter breaststroke (6:56.2) fifth in 100-breast (3:14.5), sixth in 50-breast (1:32.6), seventh in 200-back (5:57.4) and 10th in 100-back (2:53.2). Be impressed that 76-year-old Meservey has been



Swimming Relays Bobbe Smith

swimming Masters competition since the early 1970s when the Oak Ridge club was organized.

Bill Sewell was president of Oak Ridge Masters back then and was looking over the top 10 times just before a local meet. Janet recalls that he said, "There's no time for 200-back in your age group. I want you to enter it. If you win, you'll set a record."

"So," she said, "I did and he was right; I got the record." At the same meet, Lillian Kyte also got a national first by bettering the 200breaststroke time in her age bracket. Back then these two and John Crews could be found breaking records at any given meet. Oak Ridge Masters was well represented in competitive masters.

Meservey is a native of Vermont who learned to swim from her parents when she was very young. She said, "We used to swim a lot as a family. Rivers, lakes and sometimes the ocean — it was all fun." Later she got some lifesaving instruction at the University of Vermont. During the last two years of school at Wheaton College in Massachusetts, she swam in the physical education program. She had never swum competitively until Masters.

In the early 1970s, Sewell, Oak Ridge aquatics direction at that time, asked Janet to organize an A.A.R.P. swimming program. That program evolved into what is



Janet Meservey

known now as Senior Swim, which is in the pool Monday, Wednesday and Friday mornings from 10-11 a.m. After agreeing to work in setting up the group, Janet wisely enrolled in some swim classes with the Red Cross. This led to her becoming a Water Safety Instructor; she taught classes for the Red Cross for many years.

Back to competition.

Meservey's first national championship was Long Course in Chicago in 1973. As well as helping the women place second, she personally won the 200breaststroke event. Since that time she has swum in meets large and small, all over the country. She and her husband A.B. enjoy trailering extensively. They also enjoy biking and hiking. Often they combine vacation trips to include swim meets like the nationals in Spokane, Wash., zone meets all over Dixie, and various-sized meets in Corpus Christi, Texas, St. Louis, Mo., St. Petersburg, Fla., Fort Lauderdale, Virginia and North Carolina.

Rarely a year passes without Janet making Top 10. She also made Top 10 this past year in Short Course with a ninth in 200-Breast. Dirk Van Hoesen, also of Oak Ridge Masters, made seventh in the 200-breast in short course.

Although Janet prefers Long Course (50-meter pools), she also competes in 25-meters as well as the 25-yard short course. Be impressed too with her long distance swims. Technically, Long Distance seems to encompass anything from a one hour postal swim to a ¼-mile and 10-mile. Some of these are in open water as the 10-mile Open Water off Seal Beach, Calif., but many are in lakes and rivers, and in the case of one in Wisconsin, a quarry of undetermined depth. There's usually a two or three-mile lake swim near Charlottesville, Va., which the Meserveys are apt to attend.

Janet will make the big effort to get to Short Course Nationals this year. They will be held May 16-19 in Nashville. "That Tracy Caulkins Natatorium is marvelous," she said. (She swam there last year.)

We can be impressed by this gutsy lady's accomplishments. Placing in the Top 10 is hard. It is a tally of swimmers in your particular age group from all over the United States who swam the different events during the past year. Times are compared and the top 10 emerge. Although it's an honor to have made the list, Janet has done well in so many meets she looks beyond the races. "I honestly love to swim," she says. "I like to visit different facilities and compare them. I also enjoy visiting with the people I have met at previous meets and getting acquainted with new people." She joins many in saying, "Awards are nice, but what do you do with them?" She'll often accept one as a souvenir and leave the rest.

Congratulations Janet — May you long endure!

Bobbe Smith writes about swimming for The Oak Ridger.

Reprinted from SOUTHEASTERN MASTER SWIMMER UNDERSTANDING THE TRAINING PROCESS FOR SWIMMING

by Terrence Laughlin

Director, Total Immersion Masters Swimming Camps

This summer a participant in one of my Masters swimming camps asked me for a training "recipe" for a particular event. The simplicity of such an idea has universal appeal. Just follow the directions and Voila! success. Well, there are indeed training recipes for success in each event...hundreds of them. And they all work in some way for somebody.

But don't expect to find universal agreement among swimmers and coaches on which recipe is best. Countless paths lead to the same objective and much of the fun in training lies in mapping those routes, observing where they lead, then debating their merits with others who arrived at the same place from a different direction.

Guiding principles can help us discover the recipe that works best for us. While the application may change from person to person, the principles of training are both simple and universal. They apply to national champion or novice, teenager or septuagenarian, man or woman. They allow you to follow a systematic path to your desired goal of swimming faster, with fewer detours along the way.

Training is a quest for a better future - practicing to perfect skills, to go farther, faster, with less effort by exploiting the body's intriguing capacity for growing stronger in response to stress. (Remember the saying: "What doesn't kill me, makes me stronger.") The following principles will be your guide to achieving the training effect in swimming, but they can apply equally well to running, cycling or any endurance sport.

1. Stress - In a training medium this describes, not the effect of a bounced check or a demanding boss, but that of a workload imposed on the body. Carefully and selectively applied, it elicits a positive training response - the body gets stronger. When the workload is too heavy, the body - can't adapt. Injury, exhaustion, frustration result.

2. Progressive Overload - As the body grows stronger (in response to training), in order to stimulate further gains, we need to increase the load. Judicious and systematic increases in frequency and intensity causes the organism to reach for yet a higher level. What was a proper training overload for your first month (or year) of training, will probably be insufficient to stimulate further adaptation in the third month (or year).

3. Specificity - The body adapts to the specific type of stress imposed. So training should closely approximate the activity you're preparing for, in distance, type, and intensity. One of the simplest, yet truest expressions of training advice I've ever heard is: "In order to swim faster, you have to...swim faster." Specificity also refers to efficient technique, which is a product of highly specific stroke patterns, and pitches, and adjustments to water pressure. A drift into poor technique, whether through fatigue or loss of concentration, means less efficient muscle groups bear the workload, and you lose the optimal training effect.

4. **Consistency** - Even if you can spare as little as 30 minutes a day for training, you can still achieve reasonably good fitness, just through regularity. Physiologists tell us that we need to train at least 3-4 days a week, year-round to maintain fitness. For higher levels, we must, obviously, do more. (See #5.) Fitness can be easily lost in a few idle weeks, and it always takes longer to regain than it did to lose it. So, during a period when you're forced to decrease activity, even a modest amount of training is far better than none at all.

5. **Progression** - The nearer the top you get, the steeper is the mountain you're trying to climb. The more you improve, the harder it is to keep improving at the same rate. You'll reach 90% of your potential with a modest amount of effort, but beyond that, even small gains will come grudgingly. At that point, it becomes even more important to refine your approach, to swim smarter, rather than harder. The good news: The ground that has already been won will be relatively easy to hold. (See #4.)

6. Recovery - Work and rest are inseparable halves of the same equation. Appropriate recuperation from hard training, to allow the body to adapt and successfully handle harder workloads, is essential during a set, a workout, or a training cycle. You won't be able to repeatedly push your heart rate near its maximum in a set, unless it recovers near its resting level between efforts. Intense workouts must be balanced with recovery workouts. Harder, goal-oriented training cycles (see #7) can be very effective if built on a solid base of sub-maximal training.

7. Cycles - Steady, sub-maximal training is like putting money in the bank. We write checks for the payoff with intensive training. Write too many checks and you'll soon be bankrupt; your body will fail to adapt (see #1). The faster and harder you train, the sooner you'll run out of gas. This applies to individual workouts as well as training cycles of months and years. Particularly for Masters athletes whose "careers" may be measured in quarter- and half-centuries and whose primary goals are health and happiness, steady low-stress training keeps you injury-free, physically fresh, and fit for the long haul, week-in and week-out, year-in and year-out. (See #4.)

8. Know Thyself - The paramount consideration, superseding all of the seven preceding principles, is how you personally respond to training. Even in a group workout setting, 30 different swimmers will respond to a particular workout or set in 30 individual ways. And there will likely be as many different favorite sets and drills. So it's important to personally adapt any group training regime to suit your needs for best results. Self-awareness and careful self-monitoring (especially through keeping a log) are indispensable tools to aid in this.

Terry Laughlin is director of Total Immersion instructional camps and clinics for adult fitness and competitive swimmers and triathletes of any age or ability level. One of his camps will be held at Appalachian State University in Boone, NC, June 7-11, 1991. For information on any Total Immersion programs, call Terry at 914-294-3510, or write to him at 381 Main Street, Goshen, NY 10924. This picture appeared in the <u>National</u> ENQUIRER! Why?

WATER BABY

"Glub!" Six-month-old Rebecca Wilkie shows that holding her breath under water is mere child's play as she goes for a dip with her dad David. He's an Olympic gold medalist swimmer from Scotland — and Rebecca has taken to the pool like a fish to water ever since she was just a few weeks old.

"REMEMBRANCE OF THINGS PAST": A HISTORY OF DC MASTERS

by Nancy Kirkendall with help from Frank and Nancy Clark, Bob and Susi Husson, Helen Hummer, Ed Emes, Meredith Smith, and Rita Shephard



This picture appeared in the Wavemaker. To help clarify the error that the 1975 LC Nationals were held in Ft. Lauderday, I looked it up and they were held at the University of TN. (This picture was taken in an indoor pool.) John Bauman is on the left, then Matt Flana gan, Roy Stickney (on top), Larry Larimore, Ted Haartz, Ransom Arthur and Mark Coughlin. Flanagan and Coughlin represented DC Masters at this meet.



7 WORKOUT RULES FOR HIGH SPEED SWIMMING

To compensate for our aging and its physical deterioration we all must use our experienced and wiser brain in our workouts. A 10 year old lacking workout discipline is OK. A 70 year old without discipline is a sad sight. Here are some thoughts that guide my workouts:

DO A SEASON BLUEPRINT.

Determine when you want to achieve your best times (April/May?). Work backwards to identify what you must do to achieve those times.

2. FOLLOW YOUR PLUEPRINT PHILOSOPHY.

You don't have to be enslaved to it. Just follow the general direction. In my blueprint for example, you'll notice the trends and directions as the months go by:

* Increased workout frequency * From longer distances to shorter * Develop techniques early, then power and finally speed * Progressively swim faster and also get more rest.

* Increase workout effort gradually by going from discomfort workouts to hurt zone workouts and then pain zone and perhaps a bit of agony in workouts near the end of the season. (see article: "HURT_PAIN_AGONY") * Chart yardage - but beware, yardage may not reveal effort or stress. The 1500 yard/workouts on my chart reflect the maximum 50 minute lap swim time I now have. Ideally, I'd like a 1 to 1.5 hour workout whereby I could increase my yardage slightly and greatly increase my quality and rest.

SAVE YOURSELF FOR NEXT SEASON.

Never go to the adge either in a season or in a long hard series of workouts. This could risk damage to your body. Save something for next season and the next ten seasons. "Burnout" shouldn't happen to a wise Masters Swimmer.

4. GOALS REVOLVE AROUND WORKOUTS.

90+% of your time is spent in workouts. That's where most of your goals should be. Use meets to increase motivation, learn techniques, and have fun. A big challenge for me is the "Dr. Sprint Postal Workout" at season end.

5. ALL WORKOUTS ARE CEREBRAL.

The brain should be going a mile a minute, far ahead of your body. The old saying "If you don't use it you lose it" applies here. Nothing is as sorry as a dumb old athlete. In workouts, submerge yourself in a coordinated mind/body effort. THINK.

6. "SURVIVAL" WORKOUTS WASTE TIME.

A "survival" workout is where your body feels like a limp dishrag, your too tired to think and technique is forgotten. Whenever you invent or perform a workout, always ask why you are doing it. The answer should always have a higher purpose than "Get into shape". If you don't know why you are doing a particular swim, ask your coach. If you don't like the answer - stop. Don't workout so hard that you are a walking zombie the rest of the day. Is that health?

7. TEAM UP.

Try hard to persuade others to workout with you. By teaming up with others you can tap into their energy and increase your effort. Let others inspire you and the pain will melt.

33.79 LINDLEY DOUGHTY 31 34.72 ANN WINSTON 35.15 SARAH PANKO 35.67 CATHY NEVILLE 11 TE 99 FUTANE & HETH 36.49 C. NAMARA-LEWIS 26.59 CATHY L COOLEY TA AL DEBREAN CATH 16.78 SUSAN REATTINES 36. BC JAN BUTLER M. BRST WOMEN 30-34 50 16.19 LISA BEINETT 74 37.57 DEA & 2051 'N 71 17. 67 B.BREISACHER 17.98 M. HCROBERTS 30 18.15 JULIE ARBUTHNOT 38.24 GAIL MCCARNEY 30 TB. 75 TANKES D BULLER TO 38.87 TERRIE L MONFORE 31 39.01 DENA T. BATES 19. 70 LAIRA PHASE 400 M. 1.H. WOMEN 35-39 5:44.08 MARYANN STEVENS 37 5:45.93 CATHERINE KOHN 5:55.16 TERRI KING 74 5:55.56 CATHY HESSION 5:55.24 ELAINE FINCHAN 5:95.59 KRIS WINGENROTH 35 5:09.74 JACKIE WALKER 38 6:12.18 N. STEADMAN-MARTIN 36 6:13.14 KRISSY MACCURDY 6:24.55 LIL HANEMAN 50 H. BACK WOMEN SO-54 18.17 ESTRY JORDAN 57 44.14 LUCILLE SRIFFIN 51 44.54 SUSAN BLAKE 51 45.02 ANN CHAMP 54 45.01 SUSAN RITTENHOUSE 52 45.57 ANGELA P KONIG 46.19 CELL BLACKWELL 140 46.71 JUDY KENNEDY 52 47.49 JANET LAMOT 54 47.50 P. TULLMAN 53 200 M. FACK WOMEN 50-54 3:03.56 BETSY JORDAN 3:21.90 SPERRY RADEMAKER 3422.10 RUSAN BLAKE TICH, BO ANDELS P KONTE 87 5:26.57 LUCILLE GRIFFIN 51 3:33.06 B. ZAREMSKI TATE SE MORNTHY BURYE 1 140.60 CETL BLACKWELL 3:41.65 ROBERTA BOBERSKI 3:41.92 ANN H SAYRE 200 M. SRST WOMEN 50-54 3:16.58 JOANN LEILICH 5 3:20.36 DOROTHY A BURKE 50 1:28.91 MARGET JEBE 3:44.91 JOHNNIE DETRICK =4 1:45.20 HELGA LUKONITSCH 53 3:49.57 ALICE JONES 150.27 SANCRA B. HINSIGN II T-ST 41 PASSAGA TARENELT 3:57.12 A.B. BELLEM 4:03.51 DAWN STROUPS FLY WOMEN 52-54 200 . ALTI. 21 SPEERY RADEMACHER 50 1:33.13 JAYNE LAMPLE 3-54.55 BETSY JORDAN 53 3: TR. 74 DOROTHY & BURYE • 1:43.38 SUSAN BLAKE 3:45.22 LUCILLE GRIFFIN = C:57.59 JEANNE LITTLE 5 4:01.43 B. TAREMSKI 4:06.40 ROBERTA BOBERSK1 SO 4:10.71 DOT J WERRY 400 M. L.N. MOMEN 50-54 A-50 TT BETSY IDEDAN 6:59.83 DOROTHY A BURYE 7:03.34 SPERRY RADEMACHER 50 7:11.10 JAYNE LAMERE 7:13.75 SUSAN BLAKE 7:16.96 CHARLOTTE JEWINS 51 7:25.71 BAPSARA LAREMSK! 7:29.94 MARGIT JESE 1:34.92 POBERTA BOBERSKI 7:50.53 MARYLOU SCHULZ 5/ FLY WOMEN SE-SO 50 H. 40.88 FOXAMME MOTTER 53 42.02 BEVERLY MYERS 47. TO RONNEE VAMPHALISEN SA 42.39 DORIS KLITZKE 100 42.70 ANN J YAY 56 42.81 DIANE STOMELL 55 AT. TT AME YORUSE ** 44.49 BARBARA CALLISON 57 46.07 DONNA EDELSAUM 46.87 ANN M PISCIOTTA 20 FLY WOMEN 55-59 100 . 1:39.19 ANNE MCGUIRE **

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1141.49 ROXAMME MOTTER ΞQ 1145.43 ANN # PISCIOTTA π¢ 1:46.42 DORIS FLITCHE == 1:49.15 PARPARA CALLISON T 1:50.17 JOAN & SLEXANDER 10 1:53.94 GOMA FOR FAITH ε. 1155.97 SHIFLEY MEARLING ET 1:50.9) FHILLIS / WILSON 5 200 M. FLY KOMEN SE-SH DICT.CL RONNE VARIABLED IS 1:40.35 AVER TOULSE TI 46. 22 ANN P PIECTOTTA = 4:02.05 SHIELEY HOFAELAND SS 4:02.71 JOAN & ALEXANDER 4:10.4ª BARBARA CALLISON HIGH AR DONNA FTO SAME \$4 4:21.41 ANN DALLAM 4125.14 MALCHIA S. CLOMAN CO 4:25.24 2010/4 MONPOE 400 M. 1.M. 40MEN 55-53 5. TELS, SS RONNEE & AMERICASEN SA 1:24.77 ANNE MCEUIRE 127.73 ANN # PISCIOTTA 7:40.75 POXANNE MOTTER 19 157.30 BARBARA CALLISON 5 9:05.39 DONNA EDEL SAUM e., 2:07.66 ADRIENNE S. PIPES Se S: 11. 48 JOAN & ALEXANDER 58 8:12.06 MALCHIA S. OLSHAN 59 20 8:26.12 DONNA MONROE 25 50 M. FREE NOMEN 50-54 35.26 SAIL ROPER 61 15.55 CLARA WALVER 36.94 MARGARET TIMMINS 60 17.42 JEAN TROY 63 37.63 BETTY J. PUSS 6 27.68 FLORENCE CARR 64 37.78 CYNTHIA SPLICE 62 18.19 ANNE B. ADAMS 62 18.29 BUNNY GATCH ±Û 19.04 DELLA # SEHORN 63 100 M. FREE WOMEN 50-54 1:21.50 GAIL ROPER 61 1:24.23 JEAN TROY 1:24.67 SETTY J. RUSS 1:25.01 FLORENCE CARR 64 1:29.71 JUNE KRAUSER 14 1:20.79 FOLE GRIENDER 12 1:32.01 ELLEN VOSE 30 1:32.04 DELLA M SEHORN 1+72 AR ROSEPTA TURCOTTE AT 1:32.85 IRENE RADSPITTES at 200 H. FREE WOMEN 60-64 2:59.07 CLARA WALKER 64 2:59.53 SATL ROPER A1 3:00.48 BETTY JANE PUSS 63 3:05.13 JEAN TROY THILL AR TIME VEALEER 14 3:12.00 ANNE B. ADAMS 52 1:21.89 ROBERTA TURCOTTE 43 5:23.05 MARGARET TIMMINS 50 1:14.79 ELLEN VOSE * 1:25.55 DELLA M SEMORN 83 SOC M. FREE WOMEN SO-54 12:50.44 CLARA WALKER 54 11:05.75 SAIL POPER 12:07.55 BETTY JANE PUSS 4. TILS. SE JEAN TROY 13:29.24 JUNE KRAUSER 54 200 13:40.51 FLOPENCE CAFP 54 14:46.15 ANITA L HAZEN 52 14:52.86 EDIE GRUENDER 82 14:57.25 ROBERTA TURCOTTE 63 15:15.07 BETTY T HC MILLAN 61 100 M. SRST WOMEN 60-64 1147. 24 (1464 44.157 1:46.44 SALL ROPER 341 1148.70 LISA BOSATIO 5. USED IN BETH BLIDFELDT 54 THET. 44 JUNE APALISES 14 1:53.84 JOYCE SAMLER 11ER.01 DOSCT-Y > ANEH . 1:58.99 MARIAWA HAGAN 61 CHOR JT NAMEY MACHETH 51 2101.92 BUNNY SATCH 60 . FLY WOMEN HO-+1 40.11 SALL ROPER 61 40.11 ANNE 9. 40445 44.64 EDIE GRUENDER 62 44.91 FLORENCE CARR 64 45.06 JUNE KRAUSER 64 46.63 BETTY J. RUSS 63 47.53 JEAN TROY 63 49.52 NANCY MACRETH 61 S1.98 ELFRIEDE A ROGERS 62 53.4: ALICIA COLEMAN 200 4. FLY WOMEN 60-64 3:32.37 GAIL ROFER 51 3:38.70 JUNE KRAUSER 3: 39. 99 BETTY JAKE RUSS &5

4:16.35 NAWCY DURSTEIN 50 4121.23 EDIE GRUENDER 62 4:24.30 MARIANNA HAGAN 61 4.20 BI ELESTERE & ROSEES AZ 4:32.25 RUTH HOSKINSON 40 5:00.17 GLADYS GLEEN 5:54.64 JOAN MOINTYRE 61 200 H T.H. WOMEN A0-14 1:20.25 GAIL ROPER 61 3134.25 NANCY MACEETH SICA.60 BETTY JAKE RUSS 12 1.40.07 DIE VEALEER 24 4 141.45 FLOSPICE CARR 1:41.57 ANNE B. ADAMS 1:44.76 DELLA M SEHORN 63 1:47.95 STIE GRIENDER 5. 1:52.27 LISA ECGATIKO 00 1:54.12 BERNIELE GREETHAM +1 400 M. I.M. WOMEN 50-54 1.01 15 141 STEED 24 TICE.12 JUNE NEAUSER TICA.TT NAMOY MACEETH -2 BIOR. 64 FLORENCE CARR 44 3-11 #3 38***Y 51400 --8:24.21 BAPPARA OWENS 9:28.72 EDIE GALENDER 17 BLOOL TO JOYCE BAHLER BLOOL OF NAMEY DURSTE NANCY DIRSTEIN S141.5: FORESTA TURCOTTE SC 4. FREE WOMEN 65-59 37.36 PETEY MH. SMITH 37.57 DOBOTHY DONNELLY 48 TR. 54 FLORENCE CARE 45 39.73 PUTH H. SAAR 67 40.09 DOROTHY LA CHASSE 66 40.24 JEANNE MERRYMAN 57 40.33 C. WILL LAMS 40.89 CHARLOTE COSTELLO 67 41.78 BILLIE BURRILL 17. 09 LOTS NOTHINN 44 400 M. FREE WOMEN 65-69 6:30.19 FLORENCE CARR - 65 6:36.11 PETEY MH. SMITH 1123.56 GRACE ALTUS 24 7:78 KE RUTH H. BAAR -7 7:30.79 MARY LEE WATSON -68 7:45.53 DORCTHY DONNELLY -7:56.54 WANCY PHILLIPS 65 8:05.21 LOIS NOTHINN 45 8:06.24 BILLIE BURRILL 69 8:06.45 JEANNE MERRYMAN 100 M. BACK WOMEN 55-59 1:31.58 DORIS STEADMAN 65 1:42.44 REGAN KENNER 66 1:48.24 FLORENCE CARR 1:50.37 TEANNE MERRYMAN 67 1:52.56 C. HILLIANS 66 1:53.35 M. J. AMSBARY 65 1:54.93 NANCY SCHOEPPERLE 65 1:55.52 DOROTHY DONNELLY 58 1:57. TT NANCY PHILLIPS 45 1:57.35 SARAH ALLNUTT 66 200 M. BRST WOMEN 80-84 5:43.46 ELSA MATTILA 80 5-45 55 PATHERINE CREES RO 6154.36 KATHERINE PELTON 34 7:04.15 DOROTHY HCPKINS 7:24.77 EL L/ARETH JOHN 80 10:21.71 HAZEL & BRESSIE 81 1.M. M E N 19-24 2:25.02 CHRIS SIKES 19 7. THE FR MORY TONAT 74 2128.30 MICHAEL COLLINS 24 2:29.53 DHRIS GODFFEY 24 2:30.17 JAMES BYNUM 22 2:31.10" NOLAN STEINER 24 12:33.47 ERIK ROOKHUIJZEN 24 21,14.55 STEVEN WILLIE 2174. TO JERRY S' SHANDREN 24 C: 35. 25 C. PARADEE 22 1.N. M.E.M. 19-24 400 H. 5:11.79 CHRIS SIKES 10 Stisted MICHAEL COLLINS 24 5: 20. 49 MARS. TONAL 24 5120.52 GEORGE FRAZER 22 5-27.19 FOWARD HOGENSON SICIL PP ERIK ROOKHUIJIEN 24 5:47.58 EPIC POOL 5: 57.61 ANTHONY A. YUNG 6:22.69 KEITH J YOST 50 M. BRST M E N 45-49 DI. N7 RICHWED NEEDIT 45 14.41 THOMAS BOAK 47 35.77 SCOTT SUTHRIE 45 36.07 P. ORDSZLAN 46 34.14 N.A. OLZMANN 46 4 36.17 FREDERICK FIELD 36.77 JIM CRAGON 37.05 CHAPLES LEE 44 37.08 DAVE FRANK 46

17.09 PETER BETTER 50 M. BRST M E N 65-69 42.33 BARTON GREENBERG 66 43.32 LEE C. ARTH 45 43.53 PAUL HUTINGER 65 43.82 HENRY KIVI 44.38 TON DOMELL 10 44, 41 ROBERT & MORRISON of 44.68 FRANK M. PIEME 65 44.73 ABRASHA BRAININ 44,52 HERBERT DISTER 47 45.14 GEDRGE MELLICK 65 100 M. BACK M E N 70-74 1:55,78 A. WANCE WEGHE 74 1:35.39 ANDREN HOLDEN 71 1474 47 AL 00 V 04 9054 1:18.09 WILLIAM ROME 74 1:39.79 BRICH WINSHIP ** 1:39.82 EDWARD MORAN 1:41.50 C. EDWARD JOHNSON 71 1.47 TT REF UNRICH 1:49.33 JOHN HAAKE 1:49.61 JERRY SIEFERT 100 H BACK HEN 75-79 1:35.40 EDWARD SHEA 74 1:40.13 GEORGE MAY 141.79 DICK WESTERFIELD 75 1.48. 14 DOUTD HAL SROUGH 1:50.82 DEXTER WOODFORD 1:53.39 FRANK TILLOTSON 75 1:55.01 CHARLES SALIE 78 1:55.63 MIKE OFFNER 75 1157.00 JOHN WITTIER 1:57.90 JACK KEEFE 75 M. FREE M E N 80-64 50 TALAS SERSON SOBEL 00 15, 84 FRAM BELLAIRE 90 40.31 LLOYD DEBORNE 40.45 DAVID HC AFEE 90 10, 99 TOM MONSHAM 80 42.52 BILL BHOTT 43. 76 DAW DOTTERMEICH 81 44, B9 JIM PENETELS 97 45.37 JOHN H. FLENSISE 90 46.8T LEE ETAPR 81 1. BAD: 1 5 4 97-34 50.07 JACK HOEY 80 FI TO THE WINGHOM 20 55.95 HERE ETSENSCHMID" 93 57.09 JIM PENFIELD 83 17.59 LEE STARF 81 1:02.92 BILL SHOTT 1-17.09 HARCED BARR 90 100 M. BACK M E N 80-84 1:53.74 JACK HOEY 80 1:57.28 TOM MONAHAM 2:01.67 HERB EISENSCHTIDT B3 2:11.66 LEE STARS 91 2:15.04 JIM PENFIELD 87 2:44.19 DON NEEFE 81 200 M. BACK M E N 80-84 A. 14 7T TACK HOEV 80 4:20.37 HERB EISENSCHMIDT 83 4:23.46 TOM MONAHAN 80 4:42.92 LEE STARR 81 4:53:09 JIM PENFIELD 82 M. BRST M E N 80-84 50 49.49 BILL SHOTT 80 55.46 JIN PENFIELD 87 56.96 DAN DOTTERWEICH 81 1:02:23 HARRY BARR 1:06.03 HERB EISENSCHWIDT 83 1:06.43 JOHN M. BURNSIDE 80 1:24.54 ALBERT GILSDORF 80 1:25.15 ALFRED BUTH 81 1:35.91 DON NEEFE 81 82 1:36.50 HARRED HOFFMAN 100 M. BRST M E N 90-94 2:11.95 DAN DOTTERWEICH 2:13.74 BILL SHOTT 20 2:30.03 HAROLD BARR 80 2:32.92 HERB EISENSCHMIDT 83 1:03.06 ALFRED BUTH 82 1-24, 77 ALBERT STL SDORF 90 100 M. FLY M E N 80-84 2:27.78 BILL SHOTT 80 2:55.69 BILL STINSON 81

6

NORTH KITSAP 11-18-90			
SHORT COURSE YARDS P = P.N.A. RECORD	1		
R = REGIONAL RECOR N = WATIONAL RECOR			
W = WORLD RECORD U = UNOFFICAL TIME		121.00	
WOMEN 19-24		#A10	
	23	PNA	28.38
	23	PNA	1:12.01
	23	PNA	2:42.69
	23	PNA	1:14.43
	23	PNA	2:40.51
WONEN 25-29			
50 YD. FREE			
100 YD. FREE			30.50
WENDY HOFFMAN 200 YD. FREE			1:09.88
WENDY HOFFMAN 50 YD. BACK			2:35.55
KAREN JOST 100 YD. BACK	29	PNA	35.36
KAREN JOST SUSAN KULSA	29 28	PNA PNA	1:12.40 1:18.42
WENDY BOFFMAN 100 YD. BEST	28	PNA	1:26.10
WENDY HOFFMAN 100 YD. I.M.			1:30.78
KAREN JOST SUSAN KULSA	29	PNA PNA	1:14.06 U 1:19.36
WENDY HOFFMAN 400 YD. I.H.			1:21.39
	29	PWA	5:30.47
WONEN 30-34			
50 YD. FREE DEBORAH LADD	31	PNA	27.45
LYNN DEE WATKINS WARILYNN GOTTLIEB	34	PNA	30.82
500 YD. FREE			5:58.58
100 YD. BRST DEBORAH LADD			1:20.01
50 YD. FLY DEBORAE LADD		PMA	29.74
LYNN DEE WATKINS			
100 YD. I.M. DEBORAH LADD	31	PNA	1:10.91
	34	PNA	1:15.78
WONEN 35-39			
50 YD. FREE LESLIE BABBITT	37	PNA	32.29 U
LESLIE BABBITT MARILYN GRINDROD DIANE NC GEE MARLENE BOLNES 100 YD. FREE	38 37	PNA PNA	32.47 U 32.48
MARLENE HOLNES 100 YD. FREE	35	PNA	40.92
100 YD. FREE NAPLENE HOLMES 500 YD. FREE	35	PNA	1:35.30
LESLIE BABBITT 50 YD. BACK			
MARILYN GRINDROD MARLENE BOLNES	38 35	PNA	40.10
100 YD. BACK MARILYN GRINDROD			
50 YD. BRST LESLIE BABBITT			
200 YD. BEST LESLIE BABBITT			
EG VE PEN			
100 YD. FLY			
NARLENE HOLMES 100 YD. 1.M.			
MARILYN GRINDROD 200 YD. I.M.	38	PWA	1:28.33
LESLIE BABBITT			3:08.51
WOMEN 40-44			
100 YD. FREE	42	PNA	1:05.58
KATHRINE CASEY ROBERTA MOORE 200 YD. FREE	43	PWA	1:14.87
ROBERTA MOORE	43	PNA	2:43.39

500 YD. FREE	
KATERINE CASEY	42 PMA 6:09.37
1650 YD. FREE	
JANE MOORE 100 YD. BACK	40 PWA 27:03.19
GINGER PIERSON	44 OPPC 1-17 26
200 YD. BACK	** 0400 *******
CINCER PIERSON KATERINE CASEY	44 OREG 2:46.54
KATERINE CASEY	42 PNA 2:53.72
50 YD. BRST	11 0500 34 10
GINGER PIERSON KATHRINE CASEY	44 UKEG 34.40
ROBERTA MOORE	44 OREG 34.46 42 PNA 36.65 43 PNA 41.72
100 YD. BRST	10 100 10110
GINGER PIERSON	44 OREG 1:17.70
200 YD. BRST	CONTRACT LINESCE
GINGER PIERSON	44 OREG 2:47.17
KATHRINE CASEY 100 YD. 1.M.	42 PNA 2:54.39
	43 PNA 1:27.14
WOMEN 45-49	
50 YD. FREE	49 SDSN 33.70
50 YD. BRST	49 SUSA 33.70
FRANCESCA DRUN	49 SDSN 43.31
100 YD. BRST	
FRANCESCA DRUM	49 SDSM 1:30.41
200 YD. BRST	10 CDCF 1-10
FRANCESCA DRUM	49 SDSN 3:13.26
WOHEN 50-54	
50 YD. FREE	
CAROL ANNING	52 PNA 41.70
CLEOL NEWTHC	52 PNA 1:32.49
200 YD, FREE	52 PM 1:32.49
50 YD. FREE CAROL ANNING 100 YD. FREE CAROL ANNING 200 YD. FREE CAROL ANNING 50 YD. BRST CAROL ANNING	52 PNA 3:21.79
50 YD. BRST	
	52 PNA 59.98
100 YD. I.M. CAROL AMNING	53 MIL 3.05 10
CAROL AMAING	52 PNA 2:05.10
WOMEN 55-59	
50 YD. FREE	
CAROLYN BALDWIN	
PATRICIA WELLIS 100 YD. FREE	57 SQN 58.18
JOY ROSS	57 PNA 1:32.25
	57 SQN 2:08.72
200 YD. FREE	(2) 24 (4) (20) (20) (20) (20) (20) (20) (20) (20
JOY ROSS	57 PNA 3:06.03
500 YD. FREE CYWTHIA ROSIK	57 PNA 9:51.78
50 YD. BACK	3/ PNA 9:51./8
CYNTHIA ROSIK	57 PNA 1:02.84
200 YD. BACK	
JOY ROSS	57 PNA 3:32.71
100 YD. BRST	EC DHI THE AC
200 VD BRST	56 PNA 1:49.15
200 YD. BRST JOY ROSS	57 PNA 3:44.56
50 YD. FLY	57 PNA 3:44.56
CAROLYN BALDWIN	56 PNA 51.46 57 PNA 58.39
CYNTHIA ROSIK 100 YD. I.M.	57 PNA 58.39
CAROLYN BALDWIN	56 PNA 1:50.83
200 YD. I.M.	
JOY ROSS	57 PNA 3:34.20

WOMEN 65-69	
50 YD. FREE	
MURIEL FLYNN	67 PNA 34.30
100 YD FEFF	0.000.000000000000000000000000000000000
	65 PNA 2:06.59
1650 YD. FREE	67 SQN 36:08.32
	67 348 30:08.32
100 YD. BACK	65 PWA 2:05.30
50 YD, BRST	
MARYAN BURKE	65 PNA 59.91
100 YD. BRST	
NURIEL FLYNN	67 PNA 1:49.47
200 YD. BRST MURIEL FLYNN	67 PNA 3:53.45
100 YD. I.M.	
MARYAN BURKE	65 PHA 2:10.89
	•••••
WOMEN 70-74	
50 YD. FREE	
MAXINE CARLSON	70 PNA 55.92
200 YD. FREE	
PAT MATTHIESEN	74 PNA 4:24.86
50 YD. BACK	70 PNA 1:01.29 U
MALINE CARLOUT	10 100 1:01:13 U

500 VD. FREE

1:40.58 RONNIE KAMPHQUSEN 54

50 M. BACK WOMEN 30-34

50 YD, BRST MAXINE CARLSON 70 PHA 1:18.71 100 YD. BEST 74 PMA 2:20.33 R PAT MATTELESEN 200 YD. BRST PAT MATTHIESEN 74 PMA 5:04.91 50 YD. FLY MAXINE CARLSON 70 PHA 1:17.85 100 YD. FLY PAT MATTRIESEN 74 083 2.17 79 200 YD. I.M. PAT NATTHIESEN 74 PNA 4:49.11 WONEN 75-79 100 YD. FREE MARION MUELLER 78 PNA 2:14.57 50 YD. BLCK MARION MUTLLER 78 PN4 1:04.62 100 YD. BACK MARION MUELLER 78 PNA 2:20.53 200 VD. BACK MARION MUELLER 78 PMA 4:53.59 100 YD. 1.M. MARION MUELLER 78 PMA 2:57.32 _____ **************** NEN 19-24 100 VD. FREE DOUG TIMPE 23 PNA 1:00.37 200 YD. FREE DOUG TIMPE 23 PNA 2:15.26 50 YD. BEST TODD CERMAN 21 PNA 31 65 100 YD. BRST TODD CERMAN 24 PNA 1:10.00 50 YD. FLY TODD GERMAN 24 PBA 27.45 0 100 YD. FLY DODC TIMPE 23 PNA 1:09.56 100 YD. I.M. TODD GERMAN 24 PNA 1:04.83 200 YD. I.M. DOUG TIMPE 23 PNA 2:34.12 KEN 25-29 50 YD. FREE JAY GILLEN 25 PNA 25.47 100 YD. FREE JAY CILLEN 25 PNA 56.88 DWIGHT BOLTON 26 PNA 57.28 500 YD, FREE LARRY DE GROEN 5:36.72 29 PNA DWIGHT BOLTON 26 PNA 6:04.33 1650 YD. FREE LARRY DE GROEN 29 PNA 19:52.99 100 YD. BACK TON HARBYLOCK 29 PNA 1:11.58 200 YD. BACK LARRY DE GROEN 29 PNA 2:21.90 TON HARRYLOCK 29 PNA 2:42.44 100 YD, BRST LARRY DE GROEN 29 PNA 1:10.03 200 YD. BRST LARRY DE GROEN 50 YD. FLY 29 PNA 2:39.38 DWIGRT BOLTON 26 PNA 28.58 JAY GILLEN 25 PNA 28.68 100 YD. FLY JAY CILLEN 25 PWA 1:06.13 DWIGHT BOLTON 26 PKA 1:06.98 100 YD. L.M. JAY GILLEN 25 PNA 1:08.05 TON HARRYLOCK 29 PWA 1:11.58 NEN 30-34 50 YD. FREE MARK APPLEBY 32 PNA 27 75 DAVID THONSON 31 PNA 23.87 100 YD. FREE NARK APPLEBY 32 PNA 51.82 N. FITZGERALD 32 PNA 31 PNA 52.73 54.33 DAVID THOMSON CURTIS TROUPE 33 PNA 54.43 MIKE JONES 30 PNA 57.52 200 YD. FREE M. FITIGERALD 32 PWA 1:56.94 HARK APPLERY 32 PNA 1:58.90 33 PHA 2:03.78 CURTIS TROUPE MIKE JONES 30 PWA 2:06.87 500 YD. FREE **GEOFFREY ANDERSON 30 PNA** 5:30.91 CUPTIS TROOPE 33 PNA 5:42.89 1650 YD. FREE MARK VAN ACHTE 30 PMA 19:16.01 CLIPTON WARD 34 PNA 20:27.54 AWDY WEIFFENBACH 30 PNA 21:47.92 100 YD. BACK

33 OREG 1:02.45

JOHN ZELL

GEOFFREY ANDERSON	30	PNA	1:05.56
CEOFFREY ARDERSON 200 YD. BACK JOHN ZELL CLIFTON WARD 50 YD. BEST WARK APPLEBY			2.16.22
CLIFTON WARD	33	PWA	2:18.32 2:21.94
60 YD. BRST MARK APPLEBY	32	PNA	30.11
CO YD. BRST CLIFTON WARD CEOFFREY ANDERSON			
CEOFFREY ANDERSON	34	PNA	2:36.03
CONFERENCE AND FROM	20	-	£0 .07
N. FITIGERALD	32	PNA	1:00.41
MIKE JONES	30	PNA	1:01.77
MARK APPLEBY	32	PNA	59.47
N. FITZGERALD 200 YD. I.N.	32	PWA	1:02.23
100 VD. FLY GEOFFREY ANDERSON W. FITZGERALD MIKE JONES 100 VD. I.M. MARK APPLEBY M. FITZGERALD 200 VD. I.M. CLIFTON WARD M. FITZGERALD 400 VD. I.M.	34	PNA	2:19.73
M. FITZGERALD 100 YD. I.N.	32	PNA	2:21.18
CEOFFREY ANDERSON CLIPTON WARD	30	PNA.	4:47.21
	34	PRA	5:01.83
NEN 35-39			
O YD. FREE		DATE	15 14
JAMES STRETCH	38 38	PNA	25.28 26.20
ROCKY PHOENIX	36	PNA	26.20 29.89 35.88
RICH HENDRICKSON JAMES STRETCH ROCKY PHOENIX BRUCE LOMAX 00 YD. FREE	23	FAA	33.88
STEPHEN FREEBORN	35	PNA	56.75
KICEAEL EVANS	36	PWA	58.17
JAMES STRETCH BROCE LOWAY	38	PHA	58.48
200 YD. FREE		1.46	1.11.95
BUCH MOORE MICHAEL EVANS	36	PNA	2:04.13
00 YD. FREE STEPHEN FREEBORM RICH EEDORICKSON MICHAEL EVANS JAMES STEFTCH BROCE LOMAX BROO YD. FREE BUGH MOORE RICHAEL EVANS JAMES STRETCH 650 YD. FREE	38	PNA	2:16.13
GREGORY HARRISON	38	PNA	22:01.41
ROCKY PROENIX	36	PNA	48.29 U
BRUCE LONAX	39	PNA	55.63
ROCKY PHOENIX BRUCE LONAX OO YD. BACK BRUCE LONAX O YD. BRST	39	PNA	1:59.90
O YD. BEST ROCKY PHOENIX	36	PNA	46.37
O YD. FLY			
STEPHEN FREEBORN RICH HENDRICKSON 00 YD. FLY			
STEPSEN FREEBORN	35	PNA	1:00.73
STEPSEN FREEBORN HUGE MOORE HICEAEL EVANS	36 36	PNA	1:03.19
00 VD. FLY HUGE MOORE 00 VD. I.H.	16	DNA	2:22 64
00 YD. I.H.	30	2.84	1.126.00
MICHAEL EVANS	36	PNA	1:06.52
HUGH MOORE BRUCE LOMAX	36	PNA	1:06.65 1:50.43
NO VO TW			
STEPHEN FREEBORN HICHAEL EVANS	35 36	PNA	2:20.63 2:31.07
00 YD. I.M.			
GREGORY HARRISON HUGE NOORE	36	PNA	4:57.97
NEN 40-44			
O YD. FREE			
STEVEN PETERSON	44	PNA	27.39
STEVEN PETERSON HILL BASBROOK FRED BOLN	42	PNA	36.34
FRED BOLM 100 YD. FREE MILL HASBROOK DAVID STERM FRED BOLM 200 YD. FREE	12	PNI	1:03 38
DAVID STERN	40	PMA	1:04.89 U
FRED BOLM 200 YD. FREE	42	PNA	1:47.00
FRANK WARNER			
500 YD. FREE			6:34.94
O VD. BACK			
FRANK WARNER DAVID STERN STEVEN PETERSON	41 40	PNA	30.02
STEVEN PETERSON	44	PNA	37.14 52.61
100 YD. BACK			
DAVID STERN	40	PKA	1:10.86
	41	РΝλ	2:21.21
50 YD. BRST STEVEN PETERSON		PNA	32,41
HILL HASBROOK	12	PNA	36.45
50 YD, PLY STEVEN PETERSON	44	PNA	29.99
200 YD. I.M. STEVEN PETERSON			
STEVER PETERSON	44	P.T.A.	6.34.20

NEN 45-49				
O YD. FREE RICHARD GOLDEN	49	PHA	35.39	
00 YD. FREE RICEARD GOLDEN	49	PNA	1:19.76	
OO YD. FREE RICEARD GOLDEN	49	PNA	3:08.06	
00 YD. FREE GORDON GRAY 650 YD. FREE	45	PWA	6:40.74	
GORDON GRAY 60 YD. BACK	45	PNA	23:16.45	
GORDON GRAY	45 48	РЖА РЖА	36.22 40.68	U
ROBERT GRIFFITH 100 YD. BACK GORDON GRAY 50 YD. BRST	45	PNA	2:47.65	
POBERT GRIPFITH	48	PNA	41.73	
O YD. FLY ROBERT WATKINS ROBERT GRIFFITH	48	PNA	31.35	
00 YD. T.W.				
ROBERT WATKINS ROBERT GRIFFITH	48	ΡΝλ	1:23.71	
NEN 50-54				
OO YD. FREE	50	PNA	6:52.43	
IOO YD. BACK			1:17.03	
O VD. BRST				
IOO TD. BEST			34.22 39.61	
WALT REID 200 YD. BRST			1:17.99	
100 YD. I.M.			2:53.21	
NEN 55-59	50	PNA	1:19.08	
n 6 n 52*39				
50 YD. FREE DAVE DRUN	55	SDSM	26.96	
BOB DORSE	59	PNA	27.94	
MILES YANICK	55	PNA	32.33	
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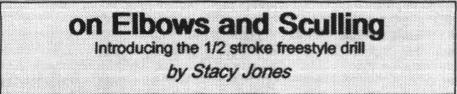
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It's that time of year again. Time for coach to pull out his latest and greatest intense sets and unleash them on his unsuspecting swimmers. It is at this time that we begin to forget all of the good habits and stroke techniques we learned in the fall in order to get through that gnarly set of 100's, thereby erasing three months worth of stroke development work. The most common victim of this crime is the freestyle.

Your freestyle may feel fine, and it may look fine (to the untrained eye), but it is possible that you're not getting the most power out of it that you can. One way to find out if you can improve it, is to ask yourself the following questions while you swim a moderate 100 freestyle. (It may be helpful to have someone on the deck answer them for you.)

 When my hand enters the water, and I begin my inward scull, where is my elbow in relation to my shoulder?

2) When I perform the inward sculling motion in my stroke, where does it begin? - (i.e. Where is my hand positioned?) Where does it end? What position is my elbow in while I scull?

3) How propulsive is this phase of my stroke?

Okay, now it's time to compare your answers with the following CORRECT responses.

1) When your hand enters the water, your elbow should be held slightly higher, or even with, your shoulder. Your arm will then be in the best position for an optimal inward scull.

2) Your inward scull should begin at about eye level, and as your hand travels down your body, your elbow should remain high until you finish that scull at (or slightly above) your belly button. From there, the hand should turn out and finish the stroke.

3) The inward scull should be one of the most powerful phases of your stroke, yet unfortunately, many swimmers let their hands follow the "path of least resistance", created when the elbow is dropped early, which then tends to "lead" the hand through this phase. This considerably decreases forward propulsion, which in turn creates a slower, less efficient stroke.

If, after answering these questions, you feel that you aren't getting the most power out of your freestyle stroke, don't despair! There is an excellent drill that will help you "increase your freestyle productivity". It is known as <u>1/2 Stroke Freestyle</u>.

Start on your right side, using a flutter kick. Keeping your left arm at your side, perform just the inward scull portion of your stroke. Your hand should never go past your navel. (Hint: This motion will feel more like a one-armed breastroke than freestyle.) You can breathe to the side, or forward, and as often as you like. I have found that the sculling motion actually pops my head out of the water, so I breathe with every stroke/scull. The point of this drill is to keep your elbow up, and to get a feel for the power that this motion can generate. When you have mastered the right arm, try it on your left side. (This side may seem very uncomfortable at first, but you'll soon get the hang of it. (Hint: You know you're doing it right if you start to feel fatigue and/or pain in your triceps and pectorals.)

When you have conquered the mechanics of the drill on both arms, try to incorporate it into your freestyle. The change may feel dramatic, and you may fatigue quickly after swimming with the new technique. Unfortunately, there is no getting around the pain. You are using muscles that haven't been used extensively, so it may take a while for them to adjust, you need to swim through it, and keep concentrating on the scull, because as yardage and intensity increase (as they do at this time of year) you will need to be used to your new and improved freestyle.

Stacy Jones swims for H2Ouston Swims and is a National Record holder who continually looks for ways to improve her technique - and is not above sharing her experiences with others.

Reprinted from GULF MASTERS Newsletter



After a week in Paris I discovered many options for the "international" or France bound swimmer. Age group swimming in Paris is guite similar to that in the States. However, the students in the Lycee (high School) attend classes from 8-noon and 2-6pm generally. The French government believes that its education system (LE BAC) is superior to others in Europe. This belief creates a problem for students who also want to be involved with athletics. The coaches of the Age Group teams and the Swimming Federation try to make special arrangements with the schools to let students out to train. Once a student is able to train, they also have double workouts and lift weights 3 days a week as our age group swimmers do.

Unfortunately, unlike the States, not every swimmer may swim in University. Throughout France there are only 5 Universities where students may study and train at the same time. In order to swim at one of the Universities a swimmer must meet the qualifying times. In a sense, it's like making the gualifying times for scholarships at our Universities in the states. There are no scholarships at the Universities in France since the education is already paid for by the governments. The swimmer who does not make University qualifying times may not be a "walk on". However, they may continue at clubs such as "Le Racing Club de France" or other clubs around the country.

In fact, I was more than welcomed to swim with the Age Group Swimmers, but it would limit other possible experiences my junior year in Paris such as "Caje's" and traveling.

Master Swimming is still a relatively new and developing idea to the French. It started about 5 years ago, but there are not many "teams." Many of the Masters swimmers train on their own. The Racing Club of France has a Masters team in Paris that practices 4 evenings a week for an hour from 8:30-9:30 for those of you Master Swimmers with travel plans to Paris.

The majority of athletes in France end their careers at the age of 25. Interestingly enough, those athletes that train after 25 are usually people continued on next page who never had the opportunity to be athletic when younger. The French have a more relaxed attitude about sports than the Americans. It is easier to find the French riding horses or sailing. Intensive training for older people is still a new idea for the French, and, as of now, is more accepted in the American mentality.

For those who want to train in France, it is possible but the relaxed attitude of the country and the bread and wine entails that much more motivation on the part of the athlete.

The Master meets have the same age groups as the U.S. - 25-29 etc., and have Nationals in the winter and spring. Last year's "Champianats" for Masters were held in Vicky.

Hope to hear from you! I LOVE getting mail.

Enter Zoomers. Put these little babies on and here's what happens: You work a little harder with your bottom half and YOU GO FASTER. Not a lot faster like with regular flippers. But enough faster to justify the extra effort AT THAT MOMENT. You are using more muscle fibers (up to 60% more) and spreading the workload out over a larger muscle mass. This allows you to burn more carbs and oxygen, producing greater force and increasing cardiovascular output. This level of exertion increases the length of recovery time following a workout, keeping the metabolism in "high gear" for a longer period after workout.

Zoomers shorten the learning curve for fast swimming. When you swim fast you experience different body positioning, streamlining, armstroke entry, kick size and speed, arm speed etc. By allowing you to spend more time swimming fast you learn these sensations and skills faster. And, so far, the experience we have had indicates that much of what swimmers are learning with the Zoomers is retained or reproduced when they take them off.

To make a long story short, Zoomers do not make workout easier. They make doing hard work more fun and provide the necessary "instant gratification" (that we are all accused of needing so much of these days) to spur you to want to do more harder, faster swimming. We encourage our swimmers to wear their Zoomers through large portions of the workouts - for sprint work as well as for distance work. They seem to like it and they keep working harder and swimming faster. Sounds like a Win/Win proposition to me (also very "in" these days).

EXCITING TRAVEL PACKAGES FOR TWO EXCITING SWIM EVENTS IN 1991

Ponte Vedra Travel has a great tour planned for the PAN PACIFIC MASTERS Aquatic Games to be held in Tokyo, Japan on July 12-17. Like in Rio, they have addressed the principal concern about Japan - price. Ponte Vedra Travel & Associates package hotel, the Kieo Plaza, is close to the pool, just minutes away by transfer and is the headquarters hotel of the Championships. They have included Championship Registration and Entry Fees, all transfers, all the special events, a city tour to be taken at your convenience and they will be there to make sure their swimmers get to know Japan and do so at a very moderate price. They believe they can show us swimmers a Japan we will love and in addition to all those medals, records and top ten rankings that we bring home, we will also bring home a lot of great memories. The meet will be held at the Yogogi National Sports Complex, built for the 1964 Tokyo Olympics and sight of the 1986 Masters World Swimming Championships. Within a block, a cup of coffee can go from \$9.00 to \$.75 and back again. They have several Excursions after the meet - one is Affordable Hong Kong (4 days/3 nights) for \$399.

And then there is BARBADOS - Masters International - Short Course Meters. The meet will be held in the new \$2 million Aquatic Center - October 2-8, 1991. It is a magnificent 50 x 25 meter pool with a 25 meter 4-lane teaching and warmup pool. There will be swimming events, one or more ocean swims, water polo, special relay events and most important of all, fabulous Bajan food.

Please call George Koski at 1-800-833-SWIM for more information or brochures.

FROM THE EDITOR

Remember, SWIM-MASTER will be retired at the end of this year! Twenty years is a long time and hopefully, the needs will be met by someone. Just in case you wish the remaining issues, the following price list is made available.

	* <u>CODE *#</u>	USA	FOREIGN
	391 491 591 691 791	\$6 \$5 \$4 \$3 \$2	\$ 10.50 \$ 9.00 \$ 7.50 \$ 6.00 \$ 4.00
00	891	\$ 1	\$ 2.00

Did you know...

Swimming is the nost popular sport – A study by Mediamark Research Inc. found that 25% of US adults went swimming in the past year, making it the most popular participationn sport by far. Swimming beat out fishing 18%, cycling 17%, bowling 14%, golf 10%, boating & basketball 9%, softball & jogging 8% and tennis 7%.

Swimming World



June Krauser, Editor 2308 N.E. 19th Avenue Ft. Lauderdale, FL 33305

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		LIFETIME VIGOROUS SWIMMING FOR FUN, SPORT AND HEALTH
10 Walterseas	. XX No	MAK-AFK 1991
MAR		SCY - Tom Harmon, 2806 Atlantic Ave., Ft. Pierce, FL 34947
		SCM - Kathy Keffer-Sharpe, 3002 N.W. 14th, Oklahoma City, OK 73107
		SCY - Bangor, Washington
		SCY - Dynamo - Lisa Watson, 804 Howell Ct, Duluth, GA 30136 SCY - Michigan Masters - Charles Enright (517) 832-9628
		SCY - RPI Spring Frolic, Dan McMahon, 2E Circle Dr., Rensselaer, NY 12144
		SCY - Larry Wood, 9722 Mackworth, Stafford, TX 77477
		SCY - Greensboro, NC - Contact Maury Schott at 919-855-8715
		SCY - Tracy Rossa, c/o S.H.A.P.E. Facility, Johnson State College, Johnson, VI 05656
		SCY - April Fools - Bob Kane, 21 Wixted Ave., Danbury, CT 06810
	30	SCM - SDI, 1135 Garnet-K, San Diego, CA 92109
APR	5–7	SCY - St Petersburg, Fl - John Bishop, 4717 Overlook Dirve N.E., St. Pete FL 33703
	57	SCY - Oregon Masters Assocation Championships - Newberg, Or
	6	SCY - Barrington Masters - Irene David (708) 382-4982
	6	1000/1650 - Barbara Protzman, 7919 Main Falls Cir, Catonsville, MD 21228
	6-7 6-7	SCY - Brian Cooley, 6005 Riedgecrest Way #202, Ft. Worth, TX 76132 SYC - Pieter Cath, 35400 Bainbridge Rd., Solon, OH 44139
		SCY - PNA Champ - Hugh Moore, 29920 2nd Place SW, Federal Way, WA 98023
		SCY - Colonies Zone - Gus Langer, PO Box 222, Milford, CT 06460
		SCY - Senior Games (55 & over) Delray Beach Patrol, 2 S.Ocean Blvd, Delray Bch, FL
		LCM - Puerto Rico Masters, 2058 Espana St., Santurce, PR 00911
		SCY - Michigan Masters State Meet - John Howsen (616) 345-9622
	13-14	LCM - Puerto Rico Masters Swimming, 2058 Espana St, Santurce, PR 00911
		SCY - SDI, 1135 Garnet-K, San Diego, CA 92109
		SCY - Pentathlon - Sam Seiple, 111 N Post Oak Lane, Houston, TX 77042
		SCY - Randy Hair, 3105 N. 7th, Coeur d'Alene ID 83814
		SCY - YMCA MASTERS NATIONAL CHAMPIONSHIPS, Indianapolis, IN
		SCY - York Masters - Cal Schaffer, 2826 Eastwood Dr., York, PA 17402 SCY - SPMA - Robert Mitchell (714) 581-1135
	27-20	JCI - JFMA - RODERT MITCHEII (/14) JOI-1133
MAY		SCY - Barbara Flanagan (918) 743-8474 - Tulsa, OK
		SCY - Tigard, Oregon - Age Group Invitational with Masters
	19	SCY - SDI, 1135 Garnet-K, San Diego, CA 92109
		AND INTERNATIONAL
MAY	16-19,	1991 USMS SC NATIONALS, NASHVILLE, TN Mary Lee Watson, 6613 Rolling Fork Drive, Nashville, TN 37205 (615) 353-1632
JUL	11-17,	1991 4TH PAN PACIFIC MASTERS SWIMMING CHAMPIONSHIPS, TOKYO JAPAN
		1991 4TH PAN PACIFIC MASTERS WATER POLO & SYNCHRONIZED SWIMMING CHAMPIONSHIPS, GUAM
AUG	15–18,	1991 USMS LC NATIONALS, ELIZABETHTOWN, KY -Cy Cyganieweiz, 206 S. Miles, Elizabethtown, KY 42702
SEP	18-22.	1991 USMS NATIONAL CONVENTION, LOUISVILLE, KY
	10000 0000000 C	5, 1992 4TH WORLD MASTERS SWIMMING CHAMPIONSHIPS, INDIANAPOLIS, IN USA
		Heidi Neuburber, 901 W New York St, Rm 204, Indianapolis, IN USA
JULY	1993	THIRD WORLD MASTERS GAMES - 1993 Secretariat, World Masters Games III, PO Box 65708 St. Paul, MN 55165-0708

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