

SWIM-MASTER



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RIO DE JANEIRO - BRAZIL

The III FINA/MSI WORLD MASTERS SWIMMING CHAMPIONSHIPS were held in Rio August 6-13, 1990. My sister and I traveled to Rio with the Ponte Vedra group. We stayed at the Sheraton Rio Hotel and found it extremely comfortable. It was situated on the Ocean and sort of isolated from the rest of Rio. There were many shops in and around the hotel, tennis courts, swimming pool, two restaurants, etc. The food was excellent and breakfast came with the room. More than enough to eat! The view from our room on the 25th floor was breathtaking. There was an ice box in the room which is nice.

After arriving on the 5th I spent the 6th in a meeting of MSI. Also attending the meeting was Mustapha Larfaoui, President of FINA, Ross Wales, Honorary Secretary of FINA, Artie Shaw of New Zealand, Vice-President of FINA and liaison to the FINA Masters Committee, and eight of the twelve members of the FINA Masters Committee. This was quite a well attended meeting from all over the world. Dan Gruender, Mani Sanguilly, June Krauser and Kevin Kelly were there from USMS. There were 42 countries entered

The facilities left a little bit to be desired. They had filled the pool just before we arrived and it was not fully filtered. The water was 92° in the beginning as they were testing the new heater. The timing equipment did not arrive in time for the meet. We did have automatic timing with pads and a printout but no times available to the swimmers until the 5th day when they found a one-lane clock. All of these items had been promised but as Marlene Pinto Mendes, the meet secretary put it, what do you expect from an undeveloped country! The language barrier was hard to get around. Many speak English but few understand. However, despite all these obstacles, many good swims were recorded. The results are supposed to be ready in October - we shall see.

Those of us traveling with Ponte Vedra had a wonderful hospitality room at the pool. There was bottled water and fruit and a secure place to leave your belongings. It helped to make the meet most enjoyable. The bus service was OK but the ride was long. Taxies were plentiful and much quicker. It was a memorable experience and I am very glad that I made the trip!

June Krauser

USMS LONG COURSE NATIONALS - WOODLANDS

829 swimmers showed up for this extremely well run meet in Texas. Some of us that had also been to Brazil managed to make this meet also. They were really too close together. Staying at The Woodlands for one of their meets is an extremely nice experience. Carolyn and Tom Boak seemed to be doing most of the work and they are both well experienced in running good meets. The nice cool pool water was a pleasure to swim in even though the air was so warm. I think I was on the Protest Committee but there was not one protest that I know of! Many good swims were made and the results will tell it all.

4th PAN PACIFIC MASTERS SWIMMING CHAMP.

These are to be held in Tokyo Japan on the 11-17 of July, 1991. The competition site will be the Yoyogi National Stadium - Swimming Pool, site of the 1964 Olympics. The entries will close on April 30th, 1991. All entries must reach Tokyo by that date. Entry limit is 5 individual events. It is appreciated if the entry order form is sent in through a club or official travel agent to: Japan Masters Swimming Association, Showa Bldg. 3f, 2-7-12 Kanda Jimbo-cho, Chiyoka-ku Tokyo JAPAN 101. Tel: 03-262-1932 Fax: 03-262-7332. This is for Swimming and Diving. Water Polo and Synchronized Swimming will be held in Agana, Guam on July 18-22, 1991. All correspondence related to Water Polo should be addressed to: GUAM MASTERS AQUATICS, P.O. Box 7233, Tamuning, Guam 96931 U.S.A.

FROM THE EDITOR

Remember, SWIM-MASTER will be retired at the end of 1991. 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.

CODE #	USA	FOREIGN	CODE #	USA	FOREIGN
790	\$ 11	\$ 18	391	\$ 6	\$10.50
890	\$ 10	\$ 16.50	491	\$ 5	\$ 9.00
990	\$ 9	\$ 15.00	591	\$ 4	\$ 7.50
191	\$ 8	\$ 13.50	691	\$ 3	\$ 6.00
291	\$ 7	\$ 12.00	791	\$ 2	\$ 4.00
			891	\$ 1	\$ 2.00

USMS AND WORLD RECORDS

Prepared by Walter Reid and Gail Dummer

EFFECTIVE DATES: USMS short-course yards and short-course meters records are current as of June 2, 1990. USMS long-course records are current as of August 20, 1990 (results of the World Championships in Brazil have not yet been processed). World records are current as of May 1, 1990. The records in this listing reflect applications received by the Chairperson of the USMS Records and Tabulation Committee by the indicated effective dates. It is possible that some records achieved by these effective dates may not yet have been submitted or processed.

WORLD RECORD CATEGORIES: World records are maintained only in short-course meters and long-course meters. World records are not maintained in the 19-24 and 95+ age groups for individual events, or for the 76+ and 320+ age groups in relay events. (The oldest age groups for world records are 90+ for individual events and 280+ for relay events.) World records are not maintained in the 400 meter and 800 meter freestyle relays or the 400 meter medley relay.

DISCREPANCIES AND ERRATA: The USMS record is faster than the world record in some events. Possible reasons for these discrepancies include: (a) the application for the USMS record has been approved, but the application for the world record still is in process; (b) a birth certificate was not submitted as proof-of-age; (c) certification of pool length was not submitted; or (d) the application for the world record was not submitted within six months of the date of the performance.

CORRECTIONS: Any questions about the listed records should be addressed to: Walter Reid, USMS Records and Tabulation Committee, 11114 - 111th Street SW, Tacoma, WA 98498.

WOMEN'S RECORDS

WOMEN 19-24	SC-Yards		SC-Meters		World	LC-Meters		World
	USMS	World	USMS	World		USMS	World	
50 freestyle	L McQueston.....	24.70	P Maxwell.....	28.51		L Scheetz.....	28.18	
100 freestyle	D Graner.....	53.67	P Maxwell.....	1:01.87		B Castillo.....	1:01.91	
200 freestyle	D Graner.....	1:54.22	S Jones.....	2:15.34		D Ursin.....	2:14.17	
400/500 freestyle	D Graner.....	5:04.90	D Buckendahl.....	4:50.48		M Baudenistel.....	4:58.83	
800/1000 freestyle	E Gorry.....	11:01.53	L Tallman.....	10:09.88		O Debobes.....	10:18.64	
1500/1650 freestyle	K Burton.....	17:31.70	K Oubre.....	20:18.52		A Lewis.....	19:15.12	
50 backstroke	D Graner.....	27.97	C Hartzell.....	33.40		M Waters.....	33.40	
100 backstroke	D Graner.....	58.72	C Hartzell.....	1:12.40		D Braciak.....	1:06.09	
200 backstroke	D Graner.....	2:07.07	C Hartzell.....	2:34.32		K Neill.....	2:37.47	
50 breaststroke	L Campbell.....	31.78	K Cavanaugh.....	36.55		L Scheetz.....	36.01	
100 breaststroke	A Tweedy.....	1:08.12	P Lindroos.....	1:20.68		L Scheetz.....	1:20.50	
200 breaststroke	A Tweedy.....	2:25.40	G Gatti.....	2:57.47		P Birsinger.....	3:01.47	
50 butterfly	D Graner.....	26.88	L Hughes.....	30.46		J Norris.....	31.75	
100 butterfly	L O'Heir.....	58.63	L Hughes.....	1:08.93		B Castillo.....	1:06.05	
200 butterfly	A Lewis.....	2:11.50	P Lindroos.....	2:42.76		B Castillo.....	2:22.59	
100 ind. medley	A Tweedy.....	1:01.44	L Hughes.....	1:12.42		S Duncan.....	2:33.43	
200 ind. medley	C Convis.....	2:12.53	D Buckendahl.....	2:34.48		D Ursin.....	5:20.39	
400 ind. medley	N Stauffer.....	4:45.34	K Burke.....	5:31.58				

WOMEN 25-29	SC-Yards		SC-Meters		World	LC-Meters		World
	USMS	World	USMS	World		USMS	World	
50 freestyle	S Neilson.....	23.69	L Fabrizio.....	26.93	26.93	S Neilson.....	26.77	26.77
100 freestyle	S Neilson.....	52.11	L Fabrizio.....	59.17	58.93	S Shand.....	58.34	58.34
200 freestyle	B Lutz.....	1:52.14	D Graner.....	2:06.47	2:06.47	S Shand.....	2:07.11	2:07.11
400/500 freestyle	J Ford.....	4:59.00	D Graner.....	4:26.18	4:26.18	S Shand.....	4:27.53	4:27.53
800/1000 freestyle	J Ford.....	10:23.15	S Carlisle-Sell.....	9:38.32	9:21.42	S Shand.....	9:18.43	9:18.43
1500/1650 freestyle	K Burton.....	17:09.27	E Jones.....	18:36.60	17:42.32	A Pope.....	17:38.78	17:38.78
50 backstroke	D Graner.....	26.76	D Graner.....	30.63	30.63	D Graner.....	30.80	30.80
100 backstroke	D Graner.....	57.54	D Graner.....	1:04.66	1:04.66	D Graner.....	1:07.32	1:06.46
200 backstroke	D Graner.....	2:03.38	D Graner.....	2:20.66	2:20.66	D Graner.....	2:19.97	2:19.97
50 breaststroke	R Seaman.....	30.61	G Gatti.....	36.45	33.60	R Seaman.....	34.36	32.01
100 breaststroke	V Marsh.....	1:07.26	G Gatti.....	1:17.68	1:13.60	R Seaman.....	1:18.31	1:16.41
200 breaststroke	C Convis.....	2:26.42	G Gatti.....	2:47.08	2:44.82	M Mitchell.....	2:50.04	2:50.04
50 butterfly	L Lanini.....	25.68	B O'Connor.....	29.13	29.51	R Seaman.....	28.79	28.79
100 butterfly	J Ford.....	57.11	D Graner.....	1:06.31	1:05.71	R Seaman.....	1:03.91	1:03.91
200 butterfly	J Ford.....	2:03.38	N Mitchell.....	2:29.84	2:24.89	J Ford.....	2:22.42	2:22.42
100 ind. medley	B O'Connor.....	59.39	B O'Connor.....	1:08.16	1:06.84			
200 ind. medley	D Graner.....	2:07.60	D Graner.....	2:24.07	2:24.07	S Shand.....	2:25.45	2:22.89
400 ind. medley	J Ford.....	4:32.30	B O'Connor.....	5:19.07	5:14.28	S Shand.....	5:06.34	5:06.34

WOMEN 30-34	SC-Yards		SC-Meters		World	LC-Meters		World
	USMS	World	USMS	World		USMS	World	
50 freestyle	S Neilson-Bell.....	23.04	S Neilson.....	26.55	26.55	S Neilson-Bell.....	26.37	26.37
100 freestyle	S Neilson.....	50.83	S Neilson-Bell.....	57.35	57.35	S Neilson-Bell.....	58.09	58.09
200 freestyle	S Neilson.....	1:52.57	S Neilson.....	2:06.83	2:06.83	B Knight.....	2:07.84	2:07.84
400/500 freestyle	B Knight.....	5:05.60	B Knight.....	4:31.88	4:31.88	S Halfacre.....	4:33.08	4:33.08
800/1000 freestyle	B Knight.....	10:33.34	B Knight.....	9:17.55	9:17.55	A Pope.....	9:35.17	9:51.94
1500/1650 freestyle	S Halfacre.....	17:41.63	B Durdy.....	18:24.43	18:24.43	A Pope.....	18:04.05	18:04.42
50 backstroke	B Mauer.....	28.41	L Hasselquist.....	32.24	32.24	B Mauer.....	32.11	32.11
100 backstroke	B Mauer.....	1:00.03	L Hasselquist.....	1:11.53	1:11.53	B Mauer.....	1:09.08	1:09.08
200 backstroke	B Mauer.....	2:09.70	K Branch.....	2:35.87	2:34.27	B Mauer.....	2:29.27	2:29.27
50 breaststroke	R Seaman.....	29.84	L Bennett.....	35.75	35.75	L Bennett.....	35.90	34.56
100 breaststroke	R Seaman.....	1:05.05	L Bennett.....	1:18.13	1:18.13	L Bennett.....	1:19.55	1:14.52
200 breaststroke	K Melick.....	2:29.75	H Murray.....	2:52.52	2:49.16	K Melick.....	2:53.08	2:48.41
50 butterfly	R Seaman.....	25.62	S Neilson-Bell.....	30.20	30.20	S Neilson-Bell.....	29.91	29.91
100 butterfly	R Seaman.....	55.68	T Bennett.....	1:07.34	1:07.34	R Seaman.....	1:06.24	1:06.24
200 butterfly	S Halfacre.....	2:10.62	H Murray.....	2:30.73	2:30.73	B Mauer.....	2:28.24	2:28.24
100 ind. medley	R Seaman.....	58.78	S Neilson-Bell.....	1:07.78	1:07.78			
200 ind. medley	S Neilson.....	2:09.99	S Neilson.....	2:27.11	2:27.11	S Neilson-Bell.....	2:29.22	2:29.22
400 ind. medley	B Mauer.....	4:39.58	B Durdy.....	5:21.01	5:21.01	B Mauer.....	5:23.84	5:23.84

WOMEN'S RECORDS

WOMEN 35-39	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	J Hirsty	24.56	J Hirsty	27.66	27.66	J Hirsty	27.91	27.91
100 freestyle	S Halfacre	52.24	J Hirsty	1:00.75	1:00.75	S Halfacre	1:00.25	1:00.25
200 freestyle	S Halfacre	1:52.79	J Hirsty	2:12.69	2:12.69	S Halfacre	2:09.33	2:09.25
400/500 freestyle	S Halfacre	5:01.04	B Dunbar	4:52.99	4:52.99	S Halfacre	4:33.08	4:33.08
800/1000 freestyle	S Halfacre	10:39.87	L Val	9:46.95	9:46.95	S Halfacre	9:24.54	9:24.54
1500/1650 freestyle	S Halfacre	17:15.23	L Val	18:27.71	18:27.71	S Halfacre	18:12.11	18:12.11
50 backstroke	L Val	28.43	L Val	33.70	33.39	L Val	32.64	32.64
100 backstroke	L Val	1:02.07	L Val	1:12.77	1:10.47	L Val	1:10.94	1:10.94
200 backstroke	K Guinn	2:20.00	J Pesavento	2:45.14	2:34.09	L Stacy	2:40.51	2:35.77
50 breaststroke	L Wetzel-Osborne	30.85	L Wetzel-Osborne	34.63	34.63	L Wetzel-Osborne	34.41	34.41
100 breaststroke	L Wetzel-Osborne	1:07.58	L Wetzel-Osborne	1:16.70	1:16.70	L Wetzel-Osborne	1:17.44	1:17.84
200 breaststroke	L Wetzel-Osborne	2:30.97	L Wetzel-Osborne	2:50.93	2:50.93	L Wetzel-Osborne	2:54.85	2:54.85
50 butterfly	L Val	26.68	L Val	30.21	30.21	S Halfacre	29.27	29.27
100 butterfly	S Halfacre	56.90	L Val	1:08.00	1:08.00	S Halfacre	1:05.39	1:05.39
200 butterfly	L Val	2:10.80	B Dunbar	2:35.70	2:35.70	L Val	2:26.38	2:26.38
100 ind. medley	S Halfacre	1:00.22	J Hirsty	1:11.55	1:11.55	M Stevens	2:40.45	2:37.26
200 ind. medley	S Halfacre	2:14.35	C Kohn	2:35.52	2:35.52	B Dunbar	5:40.56	5:38.42
400 ind. medley	S Halfacre	4:47.41	B Dunbar	5:40.66	5:32.65			

WOMEN 40-44	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	M Martin	25.00	A Mueller	29.38	29.58	M Martin	28.64	28.64
100 freestyle	M Martin	55.91	C Iannacone	1:05.27	1:04.92	M Martin	1:03.40	1:03.40
200 freestyle	B Dunbar	2:04.00	C Iannacone	2:21.91	2:21.91	M Martin	2:21.77	2:21.77
400/500 freestyle	B Dunbar	5:30.58	B Dunbar	4:53.28	4:53.28	B Dunbar	4:57.60	4:57.60
800/1000 freestyle	B Dunbar	11:20.18	B Dunbar	10:12.09	10:12.09	B Dunbar	10:10.64	10:10.64
1500/1650 freestyle	B Dunbar	18:58.23	B Dunbar	19:00.81	19:00.81	B Dunbar	19:13.16	19:13.16
50 backstroke	B Dick	31.06	D Strickland	35.26	35.09	M Martin	34.68	34.68
100 backstroke	M Martin	1:07.75	D Strickland	1:18.56	1:18.56	D Strickland	1:16.64	1:15.24
200 backstroke	C Chidester	2:26.34	D Strickland	2:51.01	2:45.34	C Chidester	2:47.57	2:47.57
50 breaststroke	G Pierson	33.31	G Pierson	38.36	38.00	G Pierson	38.37	37.59
100 breaststroke	G Pierson	1:12.49	G Pierson	1:23.81	1:23.81	G Pierson	1:24.95	1:24.95
200 breaststroke	G Pierson	2:38.86	G Pierson	3:01.86	3:01.86	G Pierson	3:07.35	3:07.35
50 butterfly	M Martin	27.92	B Dunbar	32.11	32.11	M Martin	30.54	30.54
100 butterfly	A Mueller	1:01.88	B Dunbar	1:10.56	1:01.56	B Dunbar	1:09.45	1:09.45
200 butterfly	B Dunbar	2:16.53	B Dunbar	2:32.19	2:32.19	B Dunbar	2:33.51	2:33.51
100 ind. medley	M Martin	1:04.30	B Dunbar	1:16.24	1:16.08			
200 ind. medley	C Ferris Boak	2:24.13	B Dunbar	2:45.48	2:45.48	B Dunbar	2:46.00	2:46.00
400 ind. medley	B Dunbar	5:04.08	B Dunbar	5:46.82	5:46.82	B Dunbar	5:46.50	5:46.50

WOMEN 45-49	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	A Mueller	25.98	N Ridout	30.05	30.05	A Mueller	29.08	29.08
100 freestyle	A Mueller	57.91	N Ridout	1:07.90	1:07.90	A Mueller	1:05.44	1:05.44
200 freestyle	A Mueller	2:05.71	A Mueller	2:28.69	2:28.69	A Mueller	2:24.24	2:24.24
400/500 freestyle	A Mueller	5:40.37	N Ridout	5:34.44	5:34.44	A Mueller	5:08.67	5:08.67
800/1000 freestyle	A Mueller	11:55.72	N Ridout	11:14.64	11:14.64	A Mueller	10:48.41	10:48.41
1500/1650 freestyle	A Mueller	20:12.73	M P Malley	22:59.40	22:55.80	A Mueller	21:08.30	21:08.30
50 backstroke	B Bennett	32.57	B Bennett	37.29	35.43	B Jordan	37.64	34.51
100 backstroke	B Bennett	1:11.07	B Bennett	1:21.06	1:17.13	B Jordan	1:21.04	1:17.06
200 backstroke	C Chidester	2:31.43	B Bennett	2:56.06	2:56.06	A Mueller	2:56.28	2:54.05
50 breaststroke	D Todd	34.46	E Bromwich	39.63	39.21	J Leilich	39.86	39.43
100 breaststroke	C Ferris Boak	1:16.12	E Bromwich	1:26.22	1:26.22	C Ferris Boak	1:27.39	1:28.07
200 breaststroke	J Leilich	2:46.59	J Leilich	3:06.59	3:06.59	J Leilich	3:11.24	3:10.49
50 butterfly	A Mueller	28.26	B Hoellen	33.93	33.93	A Mueller	30.74	30.74
100 butterfly	A Mueller	1:03.08	N Ridout	1:18.79	1:18.79	A Mueller	1:12.67	1:12.67
200 butterfly	A Mueller	2:20.14	A Mueller	2:37.88	2:37.88	A Mueller	2:44.10	2:44.10
100 ind. medley	D Todd	1:07.38	A Mueller	1:14.41	1:14.41			
200 ind. medley	A Mueller	2:24.53	A Mueller	2:42.88	2:42.88	A Mueller	2:46.91	2:46.91
400 ind. medley	A Mueller	5:10.24	A Mueller	5:55.35	5:55.35	A Mueller	5:54.98	5:54.98

WOMEN 50-54	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	J Bruner	27.40	J Bruner	32.30	31.31	J Bruner	31.10	31.10
100 freestyle	J Bruner	1:01.58	J Lambke	1:12.67	1:10.55	J Bruner	1:11.24	1:09.16
200 freestyle	J Bruner	2:19.30	L Stoinoff	2:38.25	2:36.01	J Correa	2:38.26	2:37.11
400/500 freestyle	L Stoinoff	6:11.76	L Stoinoff	5:32.67	5:32.67	L Stoinoff	5:37.18	5:33.71
800/1000 freestyle	L Stoinoff	12:44.88	L Stoinoff	11:35.78	11:35.78	L Stoinoff	11:40.50	11:40.50
1500/1650 freestyle	L Stoinoff	21:32.25	L Stoinoff	21:44.35	21:44.35	L Stoinoff	22:00.76	22:00.76
50 backstroke	B Jordan	32.72	B Jordan	38.14	38.14	B Jordan	37.90	37.90
100 backstroke	B Jordan	1:11.96	B Jordan	1:23.58	1:23.58	B Jordan	1:23.40	1:23.40
200 backstroke	B Jordan	2:39.39	B Jordan	2:58.72	2:58.72	B Jordan	3:01.07	3:01.07
50 breaststroke	J Bruner	35.55	J Leilich	40.51	39.87	J Bruner	40.22	39.00
100 breaststroke	J Leilich	1:17.72	J Leilich	1:28.51	1:28.51	J Leilich	1:28.83	1:29.10
200 breaststroke	J Leilich	2:50.93	J Leilich	3:11.20	3:11.20	J Leilich	3:15.76	3:14.70
50 butterfly	J Bruner	30.57	J Lambke	36.43	36.43	J Bruner	34.67	34.67
100 butterfly	J Bruner	1:12.16	J Lambke	1:22.64	1:22.64	J Bruner	1:24.40	1:24.40
200 butterfly	G Roper	2:51.58	S Rademacher	3:11.83	3:11.83	G Roper	3:15.92	3:14.27
100 ind. medley	J Bruner	1:10.73	J Leilich	1:24.62	1:23.90			
200 ind. medley	J Bruner	2:41.96	B Jordan	3:09.74	2:59.01	J Bruner	3:05.13	3:05.13
400 ind. medley	G Roper	5:50.83	S Rademacher	6:42.47	6:39.01	G Roper	6:35.20	6:35.20

WOMEN'S RECORDS

WOMEN 55-59	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	J Bruner	28.03	J Bruner	31.83	31.83	G Roper	32.60	32.60
100 freestyle	J Bruner	1:02.38	J Bruner	1:11.63	1:11.63	J Bruner	1:12.34	1:13.80
200 freestyle	L Stoinoff	2:22.66	L Stoinoff	2:40.27	2:40.27	L Stoinoff	2:42.04	2:42.04
400/500 freestyle	L Stoinoff	6:09.83	L Stoinoff	5:34.32	5:34.32	L Stoinoff	5:36.66	5:36.66
800/1000 freestyle	L Stoinoff	12:45.02	L Stoinoff	11:29.99	11:29.99	L Stoinoff	11:30.97	11:30.97
1500/1650 freestyle	L Stoinoff	21:22.63	L Stoinoff	21:35.84	21:35.84	L Stoinoff	22:18.91	22:18.91
50 backstroke	C Walker	34.63	R Kamphausen	42.10	40.38	C Walker	39.17	39.17
100 backstroke	C Walker	1:17.48	L Adams	1:31.50	1:30.03	C Walker	1:27.61	1:27.61
200 backstroke	L Stoinoff	2:48.92	L Stoinoff	3:11.13	3:11.13	L Stoinoff	3:10.89	3:10.89
50 breaststroke	J Bruner	36.05	J Bruner	42.05	41.63	J Bruner	41.74	41.74
100 breaststroke	J Bruner	1:21.72	J Bruner	1:30.86	1:28.61	J Bruner	1:31.65	1:31.65
200 breaststroke	D Stowell	3:04.49	A Pisciotta	3:27.36	3:14.96	J Bruner	3:28.24	3:18.11
50 butterfly	G Roper	31.76	G Roper	38.04	37.87	G Roper	35.39	35.29
100 butterfly	G Roper	1:15.77	J Bruner	1:30.53	1:27.88	G Roper	1:27.49	1:27.49
200 butterfly	G Roper	2:51.18	G Roper	3:20.43	3:11.42	G Roper	3:19.84	3:17.68
100 ind. medley	J Bruner	1:13.83	J Bruner	1:24.19	1:24.19			
200 ind. medley	G Roper	2:45.47	J Bruner	3:13.18	3:05.45	G Roper	3:07.65	3:07.65
400 ind. medley	L Stoinoff	5:55.35	A McGuire	7:05.88	6:40.91	G Roper	6:42.05	6:42.05

WOMEN 60-64	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	D Donnelly	30.67	A Adams	35.33	34.75	D Donnelly	35.08	35.01
100 freestyle	D Donnelly	1:08.11	C Walker	1:17.99	1:17.99	D Reessigie	1:20.10	1:18.28
200 freestyle	C Walker	2:31.16	C Walker	2:50.94	2:50.94	C Walker	2:50.03	2:50.03
400/500 freestyle	C Walker	6:50.37	C Walker	6:02.43	6:02.43	C Walker	6:02.28	6:02.28
800/1000 freestyle	C Walker	13:56.85	C Walker	12:31.12	12:31.12	C Walker	12:19.35	12:19.35
1500/1650 freestyle	C Walker	23:21.14	J Krauser	24:56.54	24:56.54	C Walker	23:55.57	23:55.57
50 backstroke	D Steadman	36.36	C Walker	39.60	39.60	D Steadman	40.35	40.35
100 backstroke	C Walker	1:19.95	C Walker	1:29.13	1:29.13	C Walker	1:31.06	1:31.06
200 backstroke	C Walker	2:54.83	D Steadman	3:16.14	3:16.14	D Steadman	3:15.92	3:15.92
50 breaststroke	C Taylor	39.74	C Walker	45.86	42.02	C Costello	45.86	42.49
100 breaststroke	C Walker	1:28.02	C Walker	1:39.86	1:39.86	C Walker	1:42.98	1:38.72
200 breaststroke	C Walker	3:14.45	E Rogers	3:48.81	3:41.14	C Walker	3:44.60	3:41.48
50 butterfly	J Eppley/A Adams	35.32	A Adams	39.64	39.64	A Adams	38.64	38.64
100 butterfly	J Eppley	1:23.43	P Dotson	1:36.95	1:36.95	A Adams	1:34.48	1:34.58
200 butterfly	J Krauser	3:10.64	J Krauser	3:33.12	3:33.12	J Krauser	3:34.66	3:34.66
100 ind. medley	C Walker	1:18.93	C Walker	1:27.50	1:27.50			
200 ind. medley	C Walker	2:53.05	C Walker	3:18.11	3:18.11	C Walker	3:17.40	3:17.40
400 ind. medley	C Walker	6:17.58	J Krauser	7:12.48	7:12.48	C Walker	6:59.45	6:59.45

WOMEN 65-69	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	P Smith	32.31	P Smith	36.26	35.77	D Donnelly	36.40	35.56
100 freestyle	D Donnelly	1:12.28	P Smith	1:21.44	1:21.44	D Donnelly	1:22.50	1:22.50
200 freestyle	P Smith	2:42.72	P Smith	3:06.11	3:06.11	F Carr	3:07.68	3:07.86
400/500 freestyle	P Smith	7:33.39	P Smith	6:31.09	6:31.09	F Carr	6:30.19	6:33.33
800/1000 freestyle	P Smith	15:24.34	P Smith	13:35.92	13:35.92	P Smith	13:33.26	13:33.26
1500/1650 freestyle	P Smith	25:01.98	J McCallister	28:03.99	28:03.99	P Smith	25:35.81	25:35.81
50 backstroke	D Steadman	37.05	D Steadman	40.48	40.48	D Steadman	40.99	44.40
100 backstroke	D Steadman	1:22.50	D Steadman	1:30.41	1:30.41	D Steadman	1:31.58	1:39.33
200 backstroke	D Steadman	2:59.56	D Steadman	3:15.72	3:15.72	D Steadman	3:17.12	3:37.55
50 breaststroke	B Christian	42.82	B Christian	47.39	47.39	C Costello	48.13	48.13
100 breaststroke	R Kenner	1:35.10	B Christian	1:51.21	1:46.19	R Kenner	1:45.89	1:45.89
200 breaststroke	R Kenner	3:25.44	B Christian	3:58.08	3:46.02	R Kenner	3:49.96	3:45.71
50 butterfly	J Eppley	38.39	J Eppley	45.75	45.75	F Carr	43.35	44.67
100 butterfly	J Eppley	1:30.04	J Eppley	1:47.51	1:47.51	J Eppley	1:48.37	1:48.37
200 butterfly	J Eppley	3:29.24	J Eppley	4:10.63	4:10.63	J Eppley	3:58.77	3:58.77
100 ind. medley	D Donnelly	1:28.58	D Donnelly	1:45.67	1:45.67			
200 ind. medley	O La Chasse	3:14.21	D Donnelly	3:50.00	3:50.00	F Carr	3:34.41	3:47.08
400 ind. medley	P Weiss	7:26.29	J Eppley	8:40.52	8:05.06	F Carr	7:57.09	8:10.65

WOMEN 70-74	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	L Donovan	34.57	L Donovan	40.42	40.42	J Gilbert	39.03	39.03
100 freestyle	L Donovan	1:19.44	L Donovan	1:31.84	1:31.84	L Donovan	1:30.79	1:30.37
200 freestyle	L Donovan	3:03.85	L Wingard	3:28.41	3:28.41	J Gilbert	3:27.09	3:24.61
400/500 freestyle	R Simonton	8:15.27	R Simonton	7:17.22	7:17.22	L Donovan	7:28.90	7:19.34
800/1000 freestyle	R Simonton	17:06.75	R Simonton	15:06.99	15:07.39	R Simonton	15:04.91	15:04.91
1500/1650 freestyle	R Simonton	28:28.46	R Simonton	28:49.23	28:49.23	R Simonton	28:46.45	28:46.45
50 backstroke	D Musselman	44.64	Y Frischhertz	50.18	45.08	J Gilbert	48.44	45.21
100 backstroke	M Wicklun	1:37.58	Y Frischhertz	1:52.56	1:44.02	D Musselman	1:51.41	1:39.85
200 backstroke	M Brown	3:34.17	Y Frischhertz	3:56.72	3:56.72	Y Frischhertz	3:55.88	3:47.59
50 breaststroke	G Zint	45.37	G Zint	50.95	50.95	G Zint	52.17	52.17
100 breaststroke	G Zint	1:41.02	G Zint	1:55.84	1:55.84	G Zint	1:56.24	1:56.24
200 breaststroke	Y Frischhertz	3:30.69	G Zint	4:11.18	4:09.41	G Zint	4:18.13	4:18.13
50 butterfly	J Eppley	40.34	G Zint	51.96	51.96	G Zint	50.72	50.72
100 butterfly	J Eppley	1:39.75	G Zint	2:04.25	2:04.25	G Zint	2:09.61	2:02.61
200 butterfly	J Eppley	3:54.84	M Merlino	4:36.96	4:36.96	M Merlino	4:37.05	4:37.05
100 ind. medley	M Brown	1:37.35	G Zint	1:50.32	1:50.32			
200 ind. medley	G Zint	3:34.44	R Simonton	4:04.81	4:04.81	R Simonton	4:10.04	4:09.35
400 ind. medley	M Merlino	7:36.45	R Simonton	8:34.79	8:34.79	R Simonton	8:39.36	8:39.36

WOMEN'S RECORDS

WOMEN 75-79	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	L Wingard	36.17	M Merlino	43.98	43.29	N Clark	43.35	41.72
100 freestyle	L Wingard	1:21.57	M Merlino	1:48.29	1:45.53	N Clark	1:40.85	1:39.28
200 freestyle	L Wingard	3:05.04	M Wicklun	3:57.19	3:50.58	N Clark	3:55.34	3:52.90
400/500 freestyle	N Clark	9:23.94	M Merlino	8:11.07	7:56.05	M Merlino	8:27.00	8:09.29
800/1000 freestyle	J Durston	18:51.01	M Merlino	17:16.06	17:16.06	J Durston	17:12.92	17:12.92
1500/1650 freestyle	J Durston	31:01.55	M Merlino	33:53.33	33:53.33	M Merlino	33:01.50	33:01.50
50 backstroke	M Wicklun	46.51	M Wicklun	52.11	52.11	M Wicklun	52.22	51.07
100 backstroke	M Wicklun	1:43.65	M Wicklun	1:58.13	1:58.13	M Wicklun	1:56.71	1:56.71
200 backstroke	M Wicklun	3:42.18	M Wicklun	4:01.89	4:01.89	M Wicklun	4:07.44	4:07.44
50 breaststroke	M Merlino	53.28	M Merlino	58.91	58.41	M Merlino	1:00.55	52.90
100 breaststroke	M Merlino	1:59.24	M Merlino	2:10.17	2:06.60	M Merlino	2:14.40	2:07.86
200 breaststroke	M Merlino	4:09.09	M Merlino	4:35.24	4:35.24	M Merlino	4:39.52	4:36.72
50 butterfly	M Hubbard	49.97	M Merlino	59.27	59.27	M Merlino	1:02.39	1:02.39
100 butterfly	J Durston	2:00.66	M Merlino	2:12.17	2:12.17	M Merlino	2:20.80	2:20.80
200 butterfly	M Merlino	4:19.43	M Merlino	4:48.50	4:48.50	M Merlino	4:54.79	4:54.79
100 ind. medley	M Merlino	1:50.29	M Merlino	2:00.07	2:00.07			
200 ind. medley	M Merlino	3:56.09	M Merlino	4:17.89	4:17.89	M Merlino	4:25.80	4:25.80
400 ind. medley	M Merlino	8:10.40	M Merlino	9:07.66	9:07.66	M Merlino	9:11.23	9:11.23

WOMEN 80-84	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	J Dolce	44.66	J Dolce	48.76	48.76	J Dolce	49.08	46.62
100 freestyle	J Dolce	1:39.96	J Dolce	1:54.23	1:53.70	J Dolce	1:58.14	1:49.27
200 freestyle	J Dolce	3:51.76	J Dolce	4:17.73	4:17.73	J Dolce	4:21.71	4:16.48
400/500 freestyle	R Switzer	10:45.81	J Dolce	9:28.50	8:51.10	J Dolce	9:27.56	9:42.48
800/1000 freestyle	D Hopkins	22:36.51	J Dolce	19:20.52	18:11.90	J Dolce	19:56.61	19:56.61
1500/1650 freestyle	D Hopkins	38:35.07	D Hopkins	39:39.28	35:44.26	J Dolce	36:54.26	42:56.35
50 backstroke	A Soule	52.35	J Dolce	1:06.51	1:05.08	A Soule	55.07	53.73
100 backstroke	A Soule	1:56.19	S Scott	2:35.68	2:24.00	A Soule	2:07.79	2:01.87
200 backstroke	M McKechnie	4:52.78	S Scott	5:18.44	5:18.44	A Soule	4:38.26	4:30.46
50 breaststroke	K Pelton	1:06.58	K Pelton	1:20.10	1:07.65	C Cress	1:14.30	1:04.78
100 breaststroke	J Cooke	2:22.40	K Pelton	2:57.04	2:44.80	C Cress	2:41.98	2:52.04
200 breaststroke	K Pelton	5:39.12	K Pelton	6:31.81	6:31.81	E Mattila	5:43.46	6:11.63
50 butterfly	K Pelton	1:06.25	K Pelton	1:19.40	1:13.27	K Pelton	1:16.09	1:13.71
100 butterfly	K Pelton	2:36.36	K Pelton	3:09.18	3:09.18	K Pelton	2:57.05	2:57.05
200 butterfly	K Pelton	5:43.94	D Hopkins	6:46.72	6:46.72	E Mattila	6:09.67	6:41.20
100 ind. medley	D Hopkins	2:21.57	D Hopkins	2:40.92	2:21.39			
200 ind. medley	J Cooke	4:51.27	K Pelton	6:10.22	6:10.22	E Mattila	5:13.12	6:02.99
400 ind. medley	J Cooke	10:00.13	D Hopkins	12:11.13	12:11.13	E Mattila	11:14.31	12:25.51

WOMEN 85-89	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	E Peckham	59.89	M McKechnie	1:03.78	1:03.78	E Peckham	1:06.49	1:06.49
100 freestyle	E Peckham	2:22.40	A Bauscher	3:01.15	3:01.15	E Peckham	2:48.56	2:48.56
200 freestyle	A Bauscher	5:32.96	M McKechnie	5:33.83	5:33.83	M McKechnie	5:47.38	5:47.38
400/500 freestyle	M McKechnie	14:15.17				E Peckham	13:22.48	13:22.48
800/1000 freestyle	M Keller	32:19.92	M McKechnie	24:05.34	24:05.34	A Bauscher	24:23.38	24:23.38
1500/1650 freestyle	E Peckham	50:54.73				M McKechnie	52:23.80	52:23.80
50 backstroke	E Peckham	1:07.57	M McKechnie	1:13.57	1:13.57	E Peckham	1:14.83	1:14.83
100 backstroke	E Peckham	2:41.15	A Bauscher	2:52.17	2:52.17	E Peckham	2:49.73	2:49.73
200 backstroke	A Bauscher	5:22.89	M McKechnie	6:00.16	6:00.16	E Peckham	5:51.69	5:51.69
50 breaststroke	E Peckham	1:23.67				E Peckham	1:42.40	1:28.69
100 breaststroke	M Keller	3:57.04				E Peckham	3:32.03	3:32.03
200 breaststroke	E Peckham	7:10.40				E Peckham	7:45.92	7:45.92
50 butterfly	E Peckham	1:16.00	E Peckham	1:44.56	1:44.56	E Peckham	1:27.77	1:27.77
100 butterfly	E Peckham	3:01.71				E Peckham	3:22.83	3:22.83
200 butterfly	E Peckham	7:15.95				E Peckham	7:40.47	7:40.47
100 ind. medley	E Peckham	2:41.31	A Bauscher	4:32.97	4:32.97			
200 ind. medley	E Peckham	5:57.63	A Bauscher	9:49.36	9:49.36	E Peckham	7:08.59	7:08.59
400 ind. medley	M Keller	17:13.92				E Peckham	14:16.56	14:16.56

WOMEN 90-94 (World 90+)	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	L Tyra	1:27.65			2:06.95	P Miller	2:02.38	2:02.38
100 freestyle	L Tyra	3:31.33			4:23.67	P Miller	4:08.22	4:08.22
200 freestyle	L Tyra	8:28.07						
400/500 freestyle								
800/1000 freestyle								
1500/1650 freestyle								
50 backstroke	P Miller	1:42.97			1:55.07	P Miller	2:17.25	2:01.70
100 backstroke	P Miller	3:32.00			4:19.46			3:59.89
200 backstroke	P Miller	7:33.41				P Miller	10:47.76	10:47.76
50 breaststroke	L Tyra	2:26.52						
100 breaststroke	L Tyra	5:30.32						
200 breaststroke	L Tyra	11:48.36						
50 butterfly								
100 butterfly								
200 butterfly								
100 ind. medley								
200 ind. medley								
400 ind. medley								

No records have been established in the women's 95+ age group.

M E N ' S R E C O R D S

MEN 19-24	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	M Noetzel	21.11	R Sprout	24.62		D Hendenhall	24.52	
100 freestyle	M Noetzel	46.20	P Cutler	54.92		T Batis	53.90	
200 freestyle	M Cleavenger	1:44.02	M Collins	2:01.91		T Batis	1:56.99	
400/500 freestyle	C Stevenson	4:42.65	M Collins	4:20.34		T Batis	4:10.98	
800/1000 freestyle	M Cleavenger	9:49.98	M Collins	8:52.70		M Collins	9:19.31	
1500/1650 freestyle	M Collins	16:46.74	M Collins	17:03.17		M Collins	17:43.31	
50 backstroke	C Stevenson	24.37	P Kelley	29.65		C Stevenson	28.06	
100 backstroke	P Thomas	52.53	P Kelley	1:04.30		C Stevenson	1:01.85	
200 backstroke	P Thomas	1:55.26	J Hoess	2:19.68		C Stevenson	2:15.36	
50 breaststroke	D Beatty	27.42	P Cutler	32.33		J Amato	30.10	
100 breaststroke	T Prince	59.74	P McClafferty	1:09.79		J Surowiec	1:06.61	
200 breaststroke	D Phelan	2:11.59	M Collins	2:36.23		P McClafferty	2:36.88	
50 butterfly	T Batis	23.30	P Cutler	27.37		C Stevenson	26.59	
100 butterfly	T Batis	51.32	J Scurlock	1:00.87		T Batis	58.16	
200 butterfly	C Stevenson	1:53.38	J Scurlock	2:17.65		K Duncan	2:09.49	
100 ind. medley	T Batis	53.39	P McClafferty	1:02.35				
200 ind. medley	D Phelan	1:56.80	J Boegman	2:19.06		W Corrigan	2:19.42	
400 ind. medley	D Phelan	4:07.27	J Boegman	4:54.60		K Duncan	4:48.68	

MEN 25-29	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	K De Forrest	20.18	J Lilley	23.73	23.73	K DeForrest	22.59	22.59
100 freestyle	K De Forrest	44.94	J Lilley	52.55	51.85	J Montgomery	51.25	51.25
200 freestyle	K Switzer	1:40.16	B Wells	1:54.00	1:54.00	J Montgomery	1:53.78	1:53.78
400/500 freestyle	K Switzer	4:32.71	B Wells	4:11.70	4:04.50	C Reid	4:07.73	4:06.99
800/1000 freestyle	P Asmuth	9:33.93	D Grootenhuis	8:56.96	8:54.31	P Asmuth	8:51.04	8:41.43
1500/1650 freestyle	B Patten	15:46.91	R Nichols	17:11.55	16:41.55	C Reid	16:28.69	16:28.69
50 backstroke	M Rhodenbaugh	23.31	C Britt	27.25	27.25	C Britt	27.48	27.39
100 backstroke	M Rhodenbaugh	50.72	C Britt	58.42	58.42	T Wolf	1:00.30	59.00
200 backstroke	S Murphy	1:52.11	B Wells	2:09.12	2:09.12	T Wolf	2:12.99	2:12.99
50 breaststroke	J Waldman	25.66	J Waldman	29.08	29.08	R Hofstetter	29.88	29.88
100 breaststroke	D Lundberg	56.21	J Waldman	1:05.09	1:04.91	D Lundberg	1:04.60	1:04.60
200 breaststroke	D Soltis	2:03.69	P McClafferty	2:24.68	2:24.68	M Chatfield	2:30.96	2:26.73
50 butterfly	R Placak	22.41	B Laird	24.24	25.77	K DeForrest/M Bottom	25.16	25.16
100 butterfly	S Baxter	49.81	B Wells	57.07	57.07	M Bottom	56.34	56.34
200 butterfly	B Patten	1:49.21	T O'Brien	2:10.91	2:13.12	J Belardi	2:06.88	2:05.25
100 ind. medley	D Lundberg	51.14	J Lilley	58.82	58.82			
200 ind. medley	C Reid	1:52.55	C Britt	2:12.28	2:12.28	C Reid	2:09.21	2:09.21
400 ind. medley	C Reid	3:59.73	D Swenson	4:48.69	4:48.69	C Reid	4:34.08	4:34.08

MEN 30-34	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	S Marvin	20.99	J Montgomery	23.98	22.82	S Marvin	24.27	23.45
100 freestyle	J Montgomery	45.29	J Montgomery	51.86	50.51	J Montgomery	52.32	51.76
200 freestyle	J Montgomery	1:39.97	D Stephenson	1:53.66	1:50.91	J Montgomery	1:55.48	1:55.48
400/500 freestyle	J Kegley	4:39.44	D Goerke	4:13.61	4:02.66	J Montgomery	4:08.70	4:08.70
800/1000 freestyle	J Kegley	9:41.92	D Stephenson	8:34.26	8:34.26	J Montgomery	8:46.99	8:46.99
1500/1650 freestyle	J Kegley	16:06.55	R Copeland	17:38.93	17:37.17	R Nichols	17:06.73	17:06.73
50 backstroke	R Jackson	24.29	T Wolf	28.56	28.56	D Ozier	27.32	27.32
100 backstroke	R Jackson	51.95	F Lehman	1:01.39	1:01.39	T Wolf	1:00.40	1:00.40
200 backstroke	T Wolf	1:54.53	F Lehman	2:15.67	2:15.67	T Wolf	2:11.77	2:11.77
50 breaststroke	B Howell	26.34	R Hofstetter	30.11	30.03	R Hofstetter	29.74	29.74
100 breaststroke	B Howell	57.99	M Schuman	1:08.10	1:06.83	B Howell	1:06.87	1:06.87
200 breaststroke	T Fristoe	2:05.07	J Shore	2:30.18	2:29.21	B Howell	2:26.61	2:26.61
50 butterfly	R Placak	22.66	M Bottom	25.06	25.06	M Bottom	25.31	25.31
100 butterfly	W Specht	49.84	M Bottom	56.43	56.43	M Bottom	56.64	56.64
200 butterfly	S Gregg	1:50.67	M Schuman	2:13.62	2:13.62	J Belardi	2:07.71	2:07.71
100 ind. medley	R Placak	52.01	W Douglas	1:01.81	1:01.34			
200 ind. medley	T Fristoe	1:54.79	T Weissert	2:12.33	2:12.33	R M Schuman	2:12.37	2:12.37
400 ind. medley	T Fristoe	4:03.23	M Schuman	4:55.11	4:55.11	R M Schuman	4:45.33	4:43.93

MEN 35-39	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	D Martin	21.30	B Vickery	23.98	23.98	R Hess	24.72	24.79
100 freestyle	T Hedrick	46.90	B Vickery	53.94	53.94	F Schlicher	55.38	55.08
200 freestyle	J Montgomery	1:42.78	L Wood	1:59.38	1:59.38	F Schlicher	2:00.45	2:00.45
400/500 freestyle	J McConica	4:43.06	L Wood	4:21.47	4:21.47	J McConica	4:18.35	4:18.35
800/1000 freestyle	J McConica	10:05.99	L Wood	9:13.76	9:13.76	B Bittler	9:09.59	9:09.59
1500/1650 freestyle	J McConica	16:46.31	K Bell	17:54.26	17:54.26	J McConica	17:26.29	17:26.29
50 backstroke	C Schwartz	24.21	M Nash	28.05	28.05	T Mann	28.04	28.04
100 backstroke	C Schwartz	52.43	T Wolf	1:01.45	1:01.98	P O'Keefe	1:02.53	1:01.60
200 backstroke	T Wolf	1:57.05	T Wolf	2:15.47	2:20.60	P O'Keefe	2:17.31	2:17.31
50 breaststroke	C Miltenberger	27.05	R Rachner	31.64	31.94	C Miltenberger	31.52	31.52
100 breaststroke	C Miltenberger	59.11	R Rachner	1:09.62	1:08.30	C Miltenberger	1:10.20	1:10.20
200 breaststroke	R Collela	2:11.59	G Harrison	2:28.35	2:28.35	G Harrison	2:35.66	2:35.66
50 butterfly	T Hedrick	23.48	C Evans	26.06	26.06	P Mungler	26.35	26.35
100 butterfly	F Schlicher	51.61	T Perrin	1:00.62	1:00.67	F Schlicher	58.59	58.59
200 butterfly	F Schlicher	1:53.88	L Wood	2:21.47	2:21.47	F Schlicher	2:12.91	2:12.91
100 ind. medley	C Evans	54.93	M Nash	1:01.17	1:01.17			
200 ind. medley	C Evans	2:00.13	C Evans	2:15.67	2:15.67	R Hess	2:19.37	2:20.37
400 ind. medley	B Reidenbaugh	4:22.04	C Evans	4:53.16	4:53.16	F Schlicher	4:59.66	4:59.66

MEN'S RECORDS

MEN 40-44	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	R Abrahams	21.78	A McPherson	24.91	24.91	T Garton	25.25	25.25
100 freestyle	R Abrahams	48.93	A McPherson	55.35	55.35	T Garton	56.36	56.36
200 freestyle	D Gray	1:48.18	K Polansky	2:01.01	2:01.01	K Polansky	2:04.82	2:05.76
400/500 freestyle	D Gray	4:50.80	K Polansky	4:18.45	4:18.45	K Polansky	4:26.60	4:32.62
800/1000 freestyle	K Polansky	10:19.29	K Polansky	9:01.20	9:01.20	K Polansky	9:19.37	9:27.20
1500/1650 freestyle	K Polansky	17:02.40	D Gray	17:38.17	17:38.17	K Polansky	17:30.13	18:23.82
50 backstroke	R Smith	25.93	T Birnie	29.58	29.58	P Whitten	29.94	29.94
100 backstroke	W Wemple	57.44	R Cooley	1:04.50	1:04.50	W Tingley	1:06.06	1:07.40
200 backstroke	R T Spieker	2:05.15	T Spieker	2:22.17	2:22.17	R T Spieker	2:25.33	2:25.33
50 breaststroke	J Witaszek	27.78	P Henne	31.33	31.33	M Witaszek	32.08	32.39
100 breaststroke	P Henne	1:01.84	P Henne	1:11.22	1:10.70	V Luken	1:11.58	1:11.58
200 breaststroke	G Boizelle	2:17.66	A Stark	2:40.68	2:38.16	P Wisner	2:38.02	2:38.02
50 butterfly	D Thompson	24.08	D Thompson	27.18	27.18	D Thompson	27.15	27.56
100 butterfly	L Larson	54.04	A McPherson	1:00.79	1:00.79	L Larson	1:02.05	1:02.05
200 butterfly	B Gallas	2:02.09	B Gallas	2:16.15	2:16.15	B Gallas	2:23.05	2:23.05
100 ind. medley	A McPherson	56.41	R Cooley	1:02.30	1:02.30			
200 ind. medley	L Larson	2:04.11	J Calvert	2:18.73	2:18.73	T Garton	2:23.20	2:23.20
400 ind. medley	J Calvert	4:28.41	J Calvert	5:00.76	5:00.76	T Garton	5:08.30	5:08.30

MEN 45-49	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	R Abrahams	21.87	R Woodrow	25.46	25.46	J Farrell	26.12	26.12
100 freestyle	R Abrahams	49.50	L Keefe	56.64	56.64	T Garton	57.96	57.96
200 freestyle	T Garton	1:50.42	E Cazalet	2:05.81	2:05.81	T Garton	2:08.93	2:08.93
400/500 freestyle	E Hinshaw	5:03.96	E Cazalet	4:33.39	4:33.39	T Garton	4:36.91	4:36.91
800/1000 freestyle	H Winn	10:48.89	R Boyd	9:32.34	9:32.34	E Cazalet	9:50.24	9:50.24
1500/1650 freestyle	W Steuart	17:59.11	H Winn	18:27.36	18:27.36	E Hinshaw	18:34.73	18:34.73
50 backstroke	R Smith	25.65	R Smith	29.33	29.33	R Burns	30.67	30.67
100 backstroke	R Smith	56.14	R Smith	1:05.31	1:05.31	E Bartsch	1:07.77	1:07.77
200 backstroke	E Bartsch	2:08.51	R Burns	2:28.51	2:28.51	E Bartsch	2:28.25	2:28.25
50 breaststroke	M Hull	28.53	S Guthrie	32.95	32.95	M Hull	33.47	33.10
100 breaststroke	M Hull	1:02.48	T Boak	1:13.91	1:13.91	M Hull	1:14.95	1:14.95
200 breaststroke	M Hull	2:19.54	R Kendrick	2:41.44	2:41.44	M Hull	2:47.28	2:47.28
50 butterfly	M Hull	24.24	R Woodrow	27.62	27.62	M Hull	28.05	27.78
100 butterfly	M Hull	54.27	G DeLong	1:05.71	1:05.71	T Garton	1:04.31	1:04.31
200 butterfly	A Cartwright	2:09.45	R Kendrick	2:30.18	2:30.18	J Geoghegan	2:32.11	2:32.11
100 ind. medley	R Smith	56.23	R Smith	1:06.13	1:07.07			
200 ind. medley	T Garton	2:06.09	R Kendrick	2:27.78	2:27.78	T Garton	2:25.46	2:25.46
400 ind. medley	T Garton	4:31.40	E Cazalet	5:17.02	5:17.02	T Garton	5:17.96	5:17.96

MEN 50-54	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	D Hill	22.93	J Farrell	26.35	26.35	D Hill	26.16	26.16
100 freestyle	J Farrell	51.93	R Proebsting	59.80	59.21	D Hill	59.25	59.25
200 freestyle	E Hinshaw	1:56.24	R Proebsting	2:15.95	2:15.95	E Hinshaw	2:14.39	2:14.39
400/500 freestyle	E Hinshaw	5:13.80	B Jones	4:45.96	4:45.96	E Hinshaw	4:51.06	4:51.06
800/1000 freestyle	E Hinshaw	11:00.03	D Gallagher	9:50.17	9:50.17	E Hinshaw	10:04.71	10:04.71
1500/1650 freestyle	B Jones	18:53.29	B Jones	19:16.63	19:16.63	B Jones	19:28.41	19:28.41
50 backstroke	J Smith	27.78	J Smith	31.42	31.42	J Smith	30.93	30.93
100 backstroke	J Smith	1:01.93	J Smith	1:10.07	1:10.07	J Smith	1:10.14	1:10.14
200 backstroke	D Brown	2:16.94	B Jones	2:37.52	2:37.52	B Jones	2:35.44	2:35.44
50 breaststroke	M Sangully	29.70	M Sangully	34.15	33.09	M Sangully	33.85	33.38
100 breaststroke	M Sangully	1:05.29	D Gallagher	1:14.72	1:14.72	M Sangully	1:15.60	1:15.60
200 breaststroke	D Gallagher	2:28.78	D Gallagher	2:45.11	2:45.11	M Sangully	2:53.76	2:53.76
50 butterfly	R Proebsting	25.80	R Proebsting	29.34	29.34	R Proebsting	28.90	28.90
100 butterfly	R Proebsting	58.39	R Proebsting	1:06.66	1:06.66	W Yorzyk	1:07.13	1:07.13
200 butterfly	W Yorzyk	2:17.78	R Proebsting	2:36.01	2:36.01	W Yorzyk	2:33.79	2:33.79
100 ind. medley	D Gallagher	1:00.66	D Gallagher	1:07.60	1:07.60			
200 ind. medley	D Gallagher	2:13.98	D Gallagher	2:31.52	2:31.52	D Gallagher	2:34.67	2:34.67
400 ind. medley	D Gallagher	4:51.41	D Gallagher	5:20.81	5:20.81	B Jones	5:41.04	5:41.04

MEN 55-59	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	D Hill	23.41	D Hill	26.60	26.60	M Muckleroy	27.42	27.42
100 freestyle	D Hill	52.59	D Hill	1:00.08	1:00.08	M Muckleroy	1:03.73	1:03.40
200 freestyle	B Jones	2:02.93	G Johnston	2:22.59	2:22.59	B Jones	2:22.94	2:22.94
400/500 freestyle	B Jones	5:32.17	G Johnston	5:00.88	5:00.88	B Jones	4:58.41	4:58.41
800/1000 freestyle	B Jones	11:26.99	G Johnston	10:35.62	10:35.62	B Jones	10:24.08	10:27.08
1500/1650 freestyle	B Jones	19:02.45	B Jones	20:18.89	20:18.89	B Jones	19:54.72	19:56.07
50 backstroke	J Beattie	29.40	Y Oyakawa	32.69	32.69	J Beattie	33.45	33.29
100 backstroke	J Beattie	1:04.60	Y Oyakawa	1:12.17	1:12.17	J Beattie	1:13.15	1:14.14
200 backstroke	B Jones	2:20.58	J Beattie	2:41.11	2:41.11	D Brown	2:42.37	2:42.37
50 breaststroke	M Sangully	30.18	M Sangully	33.77	33.77	J Kortheuer	34.20	34.20
100 breaststroke	M Sangully	1:06.93	M Sangully	1:16.32	1:16.32	J Kortheuer	1:17.87	1:17.87
200 breaststroke	M Sangully	2:34.15	M Sangully	2:51.47	2:51.47	M Sangully	2:58.83	2:58.83
50 butterfly	E Emes	27.34	W Dobler	30.24	30.24	J Kortheuer	30.94	30.94
100 butterfly	W Dobler	1:00.88	W Wilson	1:15.75	1:15.67	W Yorzyk	1:12.19	1:12.19
200 butterfly	B Yorzyk	2:24.68	M Sangully	2:53.71	2:53.71	M Sangully	3:00.91	2:56.19
100 ind. medley	B Jones	1:03.11	B Jones	1:12.67	1:12.67			
200 ind. medley	B Jones	2:17.88	B Jones	2:44.49	2:44.49	G Johnston	2:44.00	2:44.00
400 ind. medley	B Jones	5:03.44	B Jones	5:54.37	5:54.37	G Johnston	5:53.77	5:53.77

M E N ' S R E C O R D S

MEN 60-64	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	P Powlison	25.19	F Pienne	28.86	28.86	P Powlison	28.60	28.60
100 freestyle	P Powlison	56.09	F Pienne	1:07.20	1:06.98	P Powlison	1:03.94	1:03.94
200 freestyle	P Powlison	2:07.53	W Phillips	2:26.62	2:26.98	P Powlison	2:26.94	2:26.94
400/500 freestyle	W Phillips	5:55.81	W Phillips	5:14.08	5:14.08	W Phillips	5:17.64	5:17.64
800/1000 freestyle	W Phillips	12:12.88	W Phillips	11:14.13	11:14.13	W Wilson	11:13.16	11:13.16
1500/1650 freestyle	W Phillips	20:46.53	W Phillips	21:48.37	21:48.37	W Phillips	21:17.93	21:17.93
50 backstroke	P Hutinger	30.65	P Hutinger	34.81	34.81	P Hutinger	35.02	35.02
100 backstroke	P Hutinger	1:07.47	P Hutinger	1:17.31	1:17.31	P Hutinger	1:18.06	1:18.06
200 backstroke	P Hutinger	2:30.32	R Franks	2:49.82	2:49.82	R Franks	2:52.67	2:52.67
50 breaststroke	H Hunsicker	32.79	J Kurtzman	37.53	37.53	J Kurtzman	37.61	37.61
100 breaststroke	H Hunsicker	1:15.43	D VanRossen	1:23.19	1:23.19	P Powlison	1:27.50	1:27.50
200 breaststroke	F T Haartz	2:46.38	F T Haartz	3:09.24	3:09.24	P Powlison	3:17.55	3:14.50
50 butterfly	P Hutinger	28.50	F Pienne	32.58	32.48	F Pienne	32.19	32.19
100 butterfly	W Wilson	1:06.47	C Moss	1:19.42	1:16.56	W Wilson	1:17.39	1:17.39
200 butterfly	C Moss	2:41.54	C Moss	3:06.04	3:06.04	J Masters	3:00.99	3:05.41
100 ind. medley	P Hutinger	1:06.39	P Hutinger	1:16.52	1:16.52			
200 ind. medley	P Hutinger	2:32.47	C Moss	2:53.83	2:53.83	C Moss	2:55.70	2:55.70
400 ind. medley	I Katz	5:34.42	C Moss	6:19.49	6:19.49	C Moss	6:18.89	6:18.89

MEN 65-69	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	P Powlison	25.62	J Florance	30.27	30.27	P Powlison	29.17	29.17
100 freestyle	P Powlison	56.24	E Hall	1:09.55	1:09.55	J Welch	1:08.15	1:08.15
200 freestyle	P Powlison	2:10.80	J Woods	2:39.55	2:39.55	P Powlison	2:32.90	2:32.90
400/500 freestyle	P Powlison	6:17.42	J Woods	5:48.52	5:48.52	J Welch	5:38.79	5:38.79
800/1000 freestyle	P Powlison	13:35.33	J Woods	12:15.20	12:15.20	L Surles	12:09.27	11:36.97
1500/1650 freestyle	J Welch	22:21.28	A Da Rosa	23:41.14	23:41.14	J Welch	23:04.59	23:04.59
50 backstroke	P Hutinger	31.39	G Gandsey	37.48	37.12	G Gandsey	35.47	35.47
100 backstroke	P Hutinger	1:12.08	R Taft	1:24.81	1:24.81	P Hutinger	1:21.52	1:23.99
200 backstroke	P Hutinger	2:40.30	R Taft	3:07.65	3:07.65	P Hutinger	2:58.62	2:59.42
50 breaststroke	B Greenberg	34.68	B Greenberg	40.02	39.40	P Krup	40.21	39.59
100 breaststroke	T Von Berckefeldt	1:18.98	B Greenberg	1:27.91	1:27.91	A Da Rosa	1:31.99	1:31.07
200 breaststroke	B Greenberg	2:54.27	B Greenberg	3:20.02	3:19.06	L Arth	3:26.14	3:26.70
50 butterfly	P Hutinger	29.60	J Schmidt	35.28	35.28	F Pienne	33.39	33.34
100 butterfly	J Crews	1:11.93	E Rudloff	1:32.34	1:33.56	I Katz	1:25.56	1:25.56
200 butterfly	I Katz	2:54.40	P Krup	3:34.81	3:34.81	L Arth	3:24.69	3:27.00
100 ind. medley	P Powlison	1:06.74	R Taft	1:20.20	1:20.20			
200 ind. medley	R Taft	2:40.26	R Taft	3:05.38	3:05.38	P Powlison	3:02.81	3:02.81
400 ind. medley	R Taft	5:54.74	R Taft	6:46.37	6:46.37	L Arth	6:50.59	6:50.63

MEN 70-74	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	K Lemmon	27.45	K Lemmon	32.31	31.80	K Lemmon	29.35	29.35
100 freestyle	K Lemmon	1:01.22	K Lemmon	1:14.48	1:14.48	K Lemmon	1:11.61	1:11.61
200 freestyle	K Lemmon	2:24.72	R Taft	2:46.86	2:46.86	K Lemmon	2:44.86	2:44.86
400/500 freestyle	K Lemmon	6:54.49	R Taft	5:56.06	5:56.06	R Taft	6:04.62	6:04.62
800/1000 freestyle	J Welch	14:18.94	R Taft	12:15.49	12:15.49	E Moran	12:44.54	12:44.54
1500/1650 freestyle	A Da Rosa	23:44.48	A Da Rosa	23:59.12	23:59.12	A Da Rosa	24:58.38	24:58.38
50 backstroke	R Taft	34.81	R Taft	38.44	38.44	R Taft	37.49	37.49
100 backstroke	R Taft	1:17.00	R Taft	1:24.30	1:24.30	R Taft	1:25.35	1:25.35
200 backstroke	A Vande Weghe	2:52.67	R Taft	3:07.57	3:07.57	R Taft	3:13.25	3:13.25
50 breaststroke	P Krup	36.17	P Krup	40.81	40.02	B Allen	41.44	41.20
100 breaststroke	A Da Rosa	1:21.03	A Da Rosa	1:32.13	1:32.13	B Allen	1:33.20	1:33.20
200 breaststroke	A Da Rosa	3:03.29	A Da Rosa	3:24.66	3:24.66	A Da Rosa	3:32.90	3:32.90
50 butterfly	B Davidson	31.95	A Holden	37.48	37.48	R Taft	35.65	35.65
100 butterfly	A Holden	1:18.88	P Krup	1:31.20	1:31.20	A Holden	1:32.85	1:35.69
200 butterfly	A Cerer	2:58.78	A Cerer	3:31.97	3:31.97	A Holden	3:39.04	3:38.48
100 ind. medley	R Taft	1:13.66	R Taft	1:21.87	1:21.87			
200 ind. medley	B Davidson	2:47.68	R Taft	3:08.13	3:08.13	R Taft	3:11.42	3:11.42
400 ind. medley	B Davidson	6:14.18	R Taft	6:50.27	6:50.27	R Taft	6:59.24	6:59.25

MEN 75-79	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	K Lemmon	28.73	K Lemmon	32.78	32.78	L Collet	32.50	32.50
100 freestyle	K Lemmon	1:04.28	K Lemmon	1:15.94	1:15.94	K Lemmon	1:14.86	1:14.86
200 freestyle	K Lemmon	2:30.58	K Lemmon	2:55.63	2:59.20	K Lemmon	2:53.73	2:53.73
400/500 freestyle	D Woodford	7:14.29	D Woodford	6:23.81	6:23.81	A Rule	6:27.76	6:27.76
800/1000 freestyle	D Woodford	14:54.63	D Woodford	13:17.26	13:17.26	H Howe	13:35.96	13:35.96
1500/1650 freestyle	D Woodford	25:05.88	D Woodford	26:04.74	26:04.74	H Howe	25:41.55	25:41.55
50 backstroke	W Spence	37.14	L Collett	43.24	41.90	A Hargrave	40.47	40.47
100 backstroke	E Shea	1:22.92	R Richardson	1:44.07	1:37.80	A Hargrave	1:32.92	1:32.92
200 backstroke	E Shea	3:03.65	D Malbrough	3:59.04	3:34.00	A Hargrave	3:34.86	3:33.08
50 breaststroke	W Spence	38.58	K Lemmon	45.73	45.73	B Allen	43.61	43.61
100 breaststroke	K Lemmon	1:27.44	J Overall	1:43.87	1:43.87	K Lemmon	1:39.69	1:39.69
200 breaststroke	K Lemmon	3:17.04	M Offner	3:53.52	3:53.52	K Lemmon	3:50.51	3:50.51
50 butterfly	K Lemmon	35.44	B Shott	43.99	43.99	K Lemmon	41.25	41.25
100 butterfly	K Lemmon	1:32.72	J Stinson	1:48.55	1:48.55	K Lemmon	1:48.44	1:48.44
200 butterfly	J Stinson	3:40.93	J Stinson	4:09.06	4:09.06	K Lemmon	4:04.13	4:04.13
100 ind. medley	K Lemmon	1:16.57	K Lemmon	1:35.55	1:35.55			
200 ind. medley	K Lemmon	2:58.90	K Lemmon	3:35.61	3:35.61	K Lemmon	3:30.50	3:30.50
400 ind. medley	K Lemmon	6:53.52	J Stinson	8:08.29	8:08.29	K Lemmon	7:48.38	7:48.38

M E N ' S R E C O R D S

MEN 80-84	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	A Rule	33.77	D McAfee	40.71	39.21	C Ross	38.95	38.47
100 freestyle	C Ross	1:19.32	D McAfee	1:34.82	1:31.37	D McAfee	1:31.76	1:29.22
200 freestyle	C Ross	3:01.25	D McAfee	3:31.97	3:26.46	G Langner	3:31.79	3:31.79
400/500 freestyle	G Langner	8:03.55	G Langner	7:32.64	7:05.20	G Langner	7:23.09	7:23.09
800/1000 freestyle	G Langner	16:54.23	G Langner	15:41.78	15:41.78	G Langner	15:53.13	15:53.13
1500/1650 freestyle	G Langner	28:04.21	G Langner	29:58.32	29:58.32	G Langner	28:54.95	28:54.95
50 backstroke	A Rule	41.17	H Eissenschmidt	50.13	50.13	A Hargrave	45.69	45.69
100 backstroke	A Hargrave	1:35.29	H Eissenschmidt	1:50.89	1:50.89	A Hargrave	1:50.05	1:50.05
200 backstroke	A Hargrave	3:34.78	H Eissenschmidt	4:01.12	4:01.12	H Eissenschmidt	4:04.79	4:04.79
50 breaststroke	D Dotterweich	45.97	J Penfield	55.32	48.74	A Kallunki	54.29	49.61
100 breaststroke	A Kallunki	1:45.41	J Penfield	2:09.01	2:09.01	A Kallunki	2:04.84	2:00.89
200 breaststroke	A Kallunki	4:03.66	W Share	5:03.34	5:03.34	A Kallunki	4:43.91	4:40.35
50 butterfly	J Burnside	46.29	S Craigie	59.72	51.31	J Penfield	53.20	53.20
100 butterfly	J Burnside	1:52.94	S Craigie	2:38.61	2:38.61	A Kallunki	2:43.61	2:23.50
200 butterfly	B Stinson	4:35.21	H Eissenschmidt	1:53.59	1:53.59	A Kallunki	5:56.13	5:11.48
100 ind. medley	J Penfield	1:40.18	H Eissenschmidt	4:36.38	4:36.38	H Eissenschmidt	4:22.70	4:20.72
200 ind. medley	H Eissenschmidt	3:48.22	H Eissenschmidt	9:25.63	9:25.63	A Kallunki	10:44.82	9:47.72
400 ind. medley	H Eissenschmidt	8:27.54						

MEN 85-89	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	C Ross	39.47	G Langner	44.61	44.61	G Langner	44.65	44.65
100 freestyle	G Langner	1:27.45	G Langner	1:41.46	1:41.46	G Langner	1:43.03	1:43.03
200 freestyle	G Langner	3:17.83	G Langner	3:48.20	3:48.20	G Langner	3:48.91	3:48.91
400/500 freestyle	G Langner	9:00.31	G Langner	7:54.24	7:54.24	G Langner	8:14.50	8:14.50
800/1000 freestyle	G Langner	18:18.29	G Langner	16:53.90	16:53.90	G Langner	17:11.21	17:11.21
1500/1650 freestyle	G Langner	31:02.36	G Langner	32:20.20	32:20.20	G Langner	33:08.42	33:08.42
50 backstroke	R Harrison	53.98	J Earley	1:04.06	1:04.06	T Cureton	1:01.44	1:01.44
100 backstroke	T Cureton	1:58.65	J Earley	2:29.75	2:29.75	R Harrison	2:18.74	2:18.74
200 backstroke	T Cureton	4:30.54	G Langner	6:00.26	6:00.26	T Cureton	5:15.15	5:15.15
50 breaststroke	A Kallunki	52.51	G Langner	1:05.82	1:05.80	A Kallunki	1:01.47	1:01.47
100 breaststroke	A Kallunki	2:04.28	G Langner	2:31.20	2:31.20	A Kallunki	2:25.85	2:25.85
200 breaststroke	A Kallunki	4:34.29	G Langner	5:30.76	5:30.76	A Kallunki	5:35.03	5:35.03
50 butterfly	A Kallunki	59.14	G Langner	1:39.64	1:39.64	A Kallunki	1:14.96	1:14.96
100 butterfly	G Langner	3:40.10						
200 butterfly								
100 ind. medley	A Kallunki	2:00.04	G Langner	2:30.55	2:30.55			
200 ind. medley	T Cureton	4:40.51				T Cureton	5:33.20	5:33.20
400 ind. medley	T Cureton	10:41.12						

MEN 90-94 (World 90+)	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	J Whittemore	1:06.72	P Spangler	1:14.28	50.57	C Wheeler	59.88	59.88
100 freestyle	P Spangler	2:24.60	P Spangler	6:01.39		C Wheeler	2:14.06	2:14.06
200 freestyle	P Spangler	5:22.61	P Spangler	11:09.76				
400/500 freestyle	P Spangler	13:13.36						
800/1000 freestyle	P Spangler	28:04.65						
1500/1650 freestyle	P Spangler	51:31.39	P Spangler	55:20.27				
50 backstroke	T Lane	1:15.02	T Lane	1:29.99	1:29.99	T Lane	1:16.30	1:16.30
100 backstroke	T Lopez	3:22.53				L Hagener	5:04.51	5:04.51
200 backstroke	T Lopez	6:40.23						
50 breaststroke	J Whittemore	1:24.24	T Lane	1:50.16	1:50.16	T Lane	1:36.87	1:36.87
100 breaststroke						L Hagener	5:16.03	5:16.03
200 breaststroke								
50 butterfly								
100 butterfly								
200 butterfly								
100 ind. medley								
200 ind. medley								
400 ind. medley								

MEN 95+ (USMS only)	SC-Yards	USMS	SC-Meters	USMS	World	LC-Meters	USMS	World
50 freestyle	T Lane	1:16.09				T Lane	1:20.52	
100 freestyle	T Lane	3:20.38						
200 freestyle								
400/500 freestyle								
800/1000 freestyle								
1500/1650 freestyle								
50 backstroke	T Lane	1:08.20				T Lane	1:18.91	
100 backstroke								
200 backstroke								
50 breaststroke	T Lane	1:27.94				T Lane	2:03.52	
100 breaststroke								
200 breaststroke								
50 butterfly								
100 butterfly								
200 butterfly								
100 ind. medley								
200 ind. medley								
400 ind. medley								

RELAY RECORDS

WOMEN'S RELAYS

WOMEN'S RELAYS 19+/76+	SC-Yards (19+)	USMS	SC-Meters (76+)	USMS	World	LC-Meters (76+)	USMS	World
200 freestyle relay	Team Orlando	1:46.11	Univ. Houston	1:59.79		Walnut Creek	2:02.23	
400 freestyle relay	Strawberry Canyon	3:53.20	Univ. Houston	5:01.82		Santa Cruz	4:46.43	
800 freestyle relay	Strawberry Canyon	8:35.58	Space Coast	10:55.74		Santa Cruz	11:36.22	
200 medley relay	Lakeside	1:58.61	Pacific NW	2:22.24		San Mateo	2:15.79	
400 medley relay	Alaska	4:24.40	Inland Empire	5:54.71		Santa Cruz	6:00.63	
WOMEN'S RELAYS 25+/100+	SC-Yards (25+)	USMS	SC-Meters (100+)	USMS	World	LC-Meters (100+)	USMS	World
200 freestyle relay	Lone Star	1:37.40	Sanmill	2:02.59	2:01.57	Holmes Lumber	1:53.20	1:53.20
400 freestyle relay	New England	3:42.78	St. Louis	4:34.65		San Diego	4:35.53	
800 freestyle relay	Connecticut	8:22.65				Walnut Creek	9:50.91	
200 medley relay	Lone Star	1:50.75	San Diego	2:20.92	2:13.96	Holmes Lumber	2:06.67	2:06.67
400 medley relay	Alaska	4:20.81	St. Louis	4:58.83		Los Altos	5:11.31	
WOMEN'S RELAYS 35+/120+	SC-Yards (35+)	USMS	SC-Meters (120+)	USMS	World	LC-Meters (120+)	USMS	World
200 freestyle relay	Holmes Lumber	1:46.81	St. Louis	1:58.02	1:58.02	Lone Star	1:53.05	1:53.05
400 freestyle relay	Los Altos	4:06.91	San Diego	4:25.46		San Diego	4:26.76	
800 freestyle relay	Los Altos	8:52.11	Mission Bay	10:37.16		Los Altos	10:30.72	
200 medley relay	Holmes Lumber	2:00.72	St. Louis	2:13.77	2:13.77	DC Masters	2:11.61	2:08.21
400 medley relay	Los Altos	4:38.42	San Diego	5:13.77		St. Louis	5:09.67	
WOMEN'S RELAYS 45+/160+	SC-Yards (45+)	USMS	SC-Meters (160+)	USMS	World	LC-Meters (160+)	USMS	World
200 freestyle relay	Tamalpais	1:55.87	DC Masters	2:01.10	2:01.10	DC Masters	2:03.48	2:03.48
400 freestyle relay	Tamalpais	4:38.18	St. Petersburg	5:59.62		Empire State	5:08.77	
800 freestyle relay	Tamalpais	10:24.25	Industry Hills	11:45.47		Industry Hills	11:29.46	
200 medley relay	Tamalpais	2:15.35	DC Masters	2:19.83	2:23.35	DC Masters	2:20.53	2:20.53
400 medley relay	Tamalpais	5:24.17	Westchester Y.	8:21.20		San Diego	5:24.49	
WOMEN'S RELAYS 55+/200+	SC-Yards (55+)	USMS	SC-Meters (200+)	USMS	World	LC-Meters (200+)	USMS	World
200 freestyle relay	Mid Atlantic	2:17.24	Tamalpais	2:11.64	2:11.64	Tamalpais	2:18.43	2:16.01
400 freestyle relay	New England	5:34.52	Connecticut	6:53.28		Arizona	5:40.36	
800 freestyle relay	Walnut Creek	12:02.34	Heartland	14:59.93		San Diego	13:18.42	
200 medley relay	Rinconada	2:38.29	Tamalpais	2:34.15	2:34.15	So. Calif. Aqua	2:35.47	2:35.47
400 medley relay	Rinconada	6:11.61	Industry Hills	8:11.19		San Diego	6:44.16	
WOMEN'S RELAYS 65+/240+	SC-Yards (65+)	USMS	SC-Meters (240+)	USMS	World	LC-Meters (240+)	USMS	World
200 freestyle relay	Santa Barbara	2:24.64	St. Louis	2:54.59	2:42.57	New England	2:35.32	2:28.24
400 freestyle relay	Santa Barbara	5:32.88	Holmes Lumber	7:24.00		Connecticut	6:25.05	
800 freestyle relay	Santa Barbara	12:14.80	Space Coast	16:16.12		Santa Barbara	13:56.14	
200 medley relay	Santa Barbara	2:55.36	St. Louis	3:06.94	3:06.94	Holmes Lumber	3:05.36	2:51.82
400 medley relay	Santa Barbara	6:47.55	San Diego	7:12.08		Rinconada	7:10.77	
WOMEN'S RELAYS 75+/280+	SC-Yards (75+)	USMS	SC-Meters (280+)	USMS	World	LC-Meters (280+)	USMS	World
200 freestyle relay	St. Petersburg	3:54.91	Walnut Creek	3:16.06	3:16.06	Walnut Creek	3:19.23	3:09.01
400 freestyle relay			San Mateo	8:00.77		Walnut Creek	8:01.05	
800 freestyle relay						Walnut Creek	17:18.81	
200 medley relay	St. Petersburg	5:14.33	Walnut Creek	3:45.54	3:45.54	Rinconada	3:45.37	3:41.70
400 medley relay								

MEN'S RELAYS

MEN'S RELAYS 19+/76+	SC-Yards (19+)	USMS	SC-Meters (76+)	USMS	World	LC-Meters (76+)	USMS	World
200 freestyle relay	Lincoln	1:29.47	Inland Empire	1:52.27		SF Rec & Park	1:43.05	
400 freestyle relay	Alaska	3:21.39	Space Coast	5:18.51		San Diego	4:35.32	
800 freestyle relay	Davis Aquatics	7:50.50	Space Coast	11:48.18		Davis	9:11.58	
200 medley relay	SF Rec & Park	1:38.96	Pacific NW	2:00.40		SF Rec & Park	1:59.61	
400 medley relay	SF Rec & Park	3:43.88	Inland Empire	5:43.59		San Diego	5:34.90	
MEN'S RELAYS 25+/100+	SC-Yards (25+)	USMS	SC-Meters (100+)	USMS	World	LC-Meters (100+)	USMS	World
200 freestyle relay	Houstonian Club	1:23.34	Lakeside	1:40.98	1:39.13	Lone Star	1:41.18	1:38.53
400 freestyle relay	Lynbrook Aquatics	3:19.80	Riverside Aqua	4:04.16		Santa Barbara	3:51.43	
800 freestyle relay	So. Calif. Aqua	7:24.75	Univ. Houston	9:34.35		Lynbrook	8:36.26	
200 medley relay	Longhorn	1:32.46	Rosenberg	1:52.59	1:52.03	DC Masters	1:50.98	1:49.84
400 medley relay	Colonials	3:44.31	Connecticut	4:42.84		Santa Barbara	4:18.93	
MEN'S RELAYS 35+/120+	SC-Yards (35+)	USMS	SC-Meters (120+)	USMS	World	LC-Meters (120+)	USMS	World
200 freestyle relay	Lone Star	1:25.72	GCMP	1:38.93	1:38.93	Lone Star	1:37.43	1:37.43
400 freestyle relay	Chicago	3:29.26	Georgia KW	4:04.83		Texas Swimmer	3:50.76	
800 freestyle relay	Chicago	7:41.22	Holmes Lumber	8:55.59		Empire State	9:30.04	
200 medley relay	So. Calif. Aqua	1:39.02	GCMP	1:50.73	1:50.73	Holmes Lumber	1:50.90	1:49.84
400 medley relay	Minnesota	3:56.84	Texas Swimmer	4:41.40		Texas Swimmer	4:20.98	
MEN'S RELAYS 45+/160+	SC-Yards (45+)	USMS	SC-Meters (160+)	USMS	World	LC-Meters (160+)	USMS	World
200 freestyle relay	Tamalpais	1:32.89	Rocky Mountain	1:42.57	1:42.57	Olympic Club	1:43.93	1:43.26
400 freestyle relay	Connecticut	3:46.04	Connecticut	4:14.13		Los Altos	4:03.69	
800 freestyle relay	Los Altos	8:37.79	Heartland	9:17.66		DC Masters	9:12.20	
200 medley relay	Tamalpais	1:46.68	So. Calif. Aqua	1:57.12	1:58.63	Olympic Club	2:00.45	1:57.11
400 medley relay	Connecticut	4:15.51	So. Calif. Aqua	4:29.41		Cal Tech - PAC	4:39.43	

RELAY RECORDS

MEN'S RELAYS 55+/200+	SC-Yards (55+)	USMS	SC-Meters (200+)	USMS	World	LC-Meters (200+)	USMS	World
200 freestyle relay	Olympic Club.....	1:42.55	Los Altos.....	1:48.34	1:48.34	Olympic Club.....	1:50.45	1:50.45
400 freestyle relay	SW Ohio Masters.....	4:24.84	Connecticut.....	4:42.19		San Diego.....	4:50.09	
800 freestyle relay	New England.....	10:04.39	So. Calif. Aqua.....	10:48.48		San Diego.....	11:02.34	
200 medley relay	So. Calif. Aqua.....	1:57.74	Los Altos.....	2:02.44	2:02.44	Connecticut.....	2:08.82	2:08.82
400 medley relay	Los Altos.....	5:05.75	Holmes Lumber.....	5:20.91		Los Altos.....	5:07.62	

MEN'S RELAYS 65+/240+	SC-Yards (65+)	USMS	SC-Meters (240+)	USMS	World	LC-Meters (240+)	USMS	World
200 freestyle relay	So. Calif. Aqua.....	1:55.12	San Diego.....	2:07.70	2:05.13	So. Calif. Aqua.....	2:02.48	1:58.63
400 freestyle relay	Oregon.....	4:44.39	So. Calif. Aqua.....	4:51.11		San Diego.....	5:29.85	
800 freestyle relay	Oregon.....	11:47.75	Holmes Lumber.....	12:18.65		Tamapais.....	12:33.60	
200 medley relay	So. Calif. Aqua.....	2:12.78	Greater Indiana.....	2:21.09	2:21.09	Holmes Lumber.....	2:22.07	2:21.34
400 medley relay	Oregon.....	5:31.68	Space Coast.....	8:53.04		San Diego.....	6:10.11	

MEN'S RELAYS 75+/280+	SC-Yards (75+)	USMS	SC-Meters (280+)	USMS	World	LC-Meters (280+)	USMS	World
200 freestyle relay	Jersey Masters.....	2:26.59	O#H#I#O.....	2:22.90	2:11.80	Mid-Atlantic.....	2:18.63	2:18.63
400 freestyle relay	Long Beach.....	7:02.17	Long Beach.....	6:41.44		Long Beach.....	6:29.67	
800 freestyle relay	St. Petersburg.....	13:46.24	Space Coast.....	18:54.13		San Mateo.....	14:24.79	
200 medley relay	Long Beach.....	3:01.85	O#H#I#O.....	2:45.43	2:45.43	Holmes Lumber.....	2:44.78	2:41.04
400 medley relay	Long Beach.....	7:38.85	Long Beach.....	7:20.06		Long Beach.....	7:28.73	

MIXED RELAYS

MIXED RELAYS 19+/76+	SC-Yards (19+)	USMS	SC-Meters (76+)	USMS	World	LC-Meters (76+)	USMS	World
200 freestyle relay	Ladera Oaks.....	1:37.52	Metairie.....	2:03.73		Sacramento.....	1:55.94	
400 freestyle relay	Walnut Creek.....	3:37.95	Space Coast.....	5:03.81		Santa Cruz.....	4:23.58	
800 freestyle relay	Walnut Creek.....	7:54.16	Inland Empire.....	10:38.79		Santa Cruz.....	10:05.52	
200 medley relay	SF Park & Rec.....	1:48.79	Riverside.....	2:06.31		Santa Cruz.....	2:16.08	
400 medley relay	Santa Barbara.....	4:09.80	Inland Empire.....	5:26.32		Cal Tech - PAC.....	5:01.19	

MIXED RELAYS 25+/100+	SC-Yards (25+)	USMS	SC-Meters (100+)	USMS	World	LC-Meters (100+)	USMS	World
200 freestyle relay	So. Calif. Aqua.....	1:29.40	Alaska.....	1:47.91	1:46.19	Holmes Lumber.....	1:45.58	1:43.89
400 freestyle relay	Lincoln.....	3:30.65	Univ. Houston.....	4:19.91		Walnut Creek.....	4:13.70	
800 freestyle relay	Lincoln.....	7:57.95	South Bay Waves.....	9:19.97		Santa Cruz.....	9:17.66	
200 medley relay	So. Calif. Aqua.....	1:39.32	Ultra Swim.....	2:04.29	2:00.56	Holmes Lumber.....	1:56.58	1:56.58
400 medley relay	San Diego.....	3:59.18	South Bay Waves.....	5:08.72		Connecticut.....	4:52.94	

MIXED RELAYS 35+/120+	SC-Yards (35+)	USMS	SC-Meters (120+)	USMS	World	LC-Meters (120+)	USMS	World
200 freestyle relay	Lone Star.....	1:36.37	Texas.....	1:48.60	1:48.60	Lone Star.....	1:44.84	1:44.83
400 freestyle relay	Los Altos.....	3:40.82	So. Calif. Aqua.....	4:05.98		San Diego.....	4:09.34	
800 freestyle relay	Los Altos.....	8:34.51	San Diego.....	9:12.88		Walnut Creek.....	9:27.84	
200 medley relay	So. Calif. Aqua.....	1:47.90	Lakeside.....	1:58.28	1:58.28	DC Masters.....	1:58.03	1:58.03
400 medley relay	Los Altos.....	4:13.10	Texas Swimaster.....	4:56.95		Empire State.....	4:58.08	

MIXED RELAYS 45+/160+	SC-Yards (45+)	USMS	SC-Meters (160+)	USMS	World	LC-Meters (160+)	USMS	World
200 freestyle relay	Tamapais.....	1:41.83	Greater Indiana.....	1:50.55	1:50.55	Los Altos.....	1:52.55	1:48.82
400 freestyle relay	Tamapais.....	4:02.83	Los Altos.....	4:29.69		DC Masters.....	4:30.63	
800 freestyle relay	Tamapais.....	9:22.35	Space Coast.....	11:48.31		San Diego.....	10:18.62	
200 medley relay	Los Altos.....	1:56.70	Greater Indiana.....	2:07.18	2:09.78	Los Altos.....	2:07.61	2:02.10
400 medley relay	DC Masters.....	4:34.11	Industry Hills.....	5:41.39		Lincoln.....	5:28.18	

MIXED RELAYS 55+/200+	SC-Yards (55+)	USMS	SC-Meters (200+)	USMS	World	LC-Meters (200+)	USMS	World
200 freestyle relay	So. Calif. Aqua.....	1:56.25	Lincoln.....	1:57.25	1:57.25	DC Masters.....	1:59.04	1:59.04
400 freestyle relay	New England.....	4:34.21	Oregon.....	4:50.94		DC Masters.....	5:03.12	
800 freestyle relay	New England.....	10:28.18	San Diego.....	10:40.03		Multnomah.....	11:10.75	
200 medley relay	New England.....	2:12.02	Lincoln.....	2:15.20	2:15.20	Oregon.....	2:20.00	2:20.00
400 medley relay	New England.....	5:25.18	Lincoln.....	5:20.78		Oregon.....	5:32.10	

MIXED RELAYS 65+/240+	SC-Yards (65+)	USMS	SC-Meters (240+)	USMS	World	LC-Meters (240+)	USMS	World
200 freestyle relay	Lincoln.....	2:10.27	San Diego.....	2:33.33	2:29.51	So. Calif. Aqua.....	2:14.93	2:09.67
400 freestyle relay	Connecticut.....	5:15.84	Tamapais.....	5:55.13		Oregon.....	5:28.68	
800 freestyle relay	Long Beach.....	13:20.72	Holmes Lumber.....	15:39.50		Los Altos.....	12:21.32	
200 medley relay	Lincoln.....	2:27.90	O#H#I#O.....	2:41.87	2:41.00	New England.....	2:29.30	2:29.30
400 medley relay	New England.....	7:09.29	San Diego.....	6:37.62		Santa Barbara.....	6:58.02	

MIXED RELAYS 75+/280+	SC-Yards (75+)	USMS	SC-Meters (280+)	USMS	World	LC-Meters (280+)	USMS	World
200 freestyle relay	Rinconada.....	2:44.49	Connecticut.....	2:38.80	2:38.80	DC Masters.....	2:36.83	2:36.51
400 freestyle relay	St. Petersburg.....	16:04.30	San Mateo.....	6:26.07		San Mateo.....	6:08.62	
800 freestyle relay	St. Petersburg.....	16:04.30	Space Coast.....	20:36.33		San Mateo.....	14:26.78	
200 medley relay	DC Masters.....	3:18.44	Connecticut.....	3:19.26	3:11.32	So. Calif. Aqua.....	3:03.75	2:37.98
400 medley relay	Industry Hills.....	10:56.58	Connecticut.....	7:42.99		Walnut Creek.....	8:01.82	

No records have been established in the 85+/320+ age groups for the women's, men's, or mixed categories.

SWIM-MASTER

June Krauser, Editor
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LIFETIME VIGOROUS SWIMMING FOR FUN, SPORT AND HEALTH

VOL XIX - No 7

SWIM CALENDAR

SEP 1990

- SEP 2 Miss America Pageant Ocean Swim - Frank Funston, 4417 Primateer Rd, Brigantine, NJ
2 2 Mi Open Water - Pete Crumbine, 3 Copper Beach Rd., Greenwich, CT 06830
8 1 Mi Lake Norwell - Ron Bank, 80 Pebble Beach Dr., Little Rock, AR 72212
8-9 LC - Hendersonville, NC - Susan Blatner Box 1354, Hendersonville, NC 28739
14-16 SCM- Dick Chelekis, 2501 1/2 Seacrest Blvd., Delray Beach, FL 33444
15-16 SCM- Sheffield, AL - Doug Call (205) 386-0222
16 10 K in San Francisco Bay - Diddo Clark, 6 Blackthorn Rd., Lafayette, CA 94549
16 USMS 2 MI OPEN WATER CHAMP - Chuck Barrineau, 9859 Broken Bow, Dallas, TX 75328
19-23 USMS NATIONAL CONVENTION - PITTSBURGH, PA
-
- OCT 6 Harbison Swim Conference - Jan Widdifield, 3156 Sierra Dr., W. Cola, SC 29169
6 SCM- SPMA - Steve Schofield (818) 992-1820
7 SC - Eugene Matysek, 1600 S. Joyce St., A-509, Arlington, VA 22202
14 SC - Diana Tschimperle, PASC, PO Box 1056, Port Angeles, WA 98362
14 SC - Maily Early (616) 526-9824 or 526-9212 - Harbor Springs, MI
14 SC - Alicia Coleman, 24 The Point, Coronado, CA 92118
17-19 World Senior Games - St. George, Utah
19-21 SC - Joe Biondi (813) 446-6601 - Clearwater, FL
21 SC - Norwich University - King Boyd, RFD #1, Box 1000, Northfield, VT 05663
20-21 SC - Bill Kirkland, Boca Masters, 780 SW 3rd St., Boca Raton, FL 33486
27-28 SCM- Susi Chandler, 1 Deerlick Rd., Bristol, TN 37620
28 SC - Richard TenHoor (616) 866-6328 - Grand Rapids, MI
28 SC - Indiana University Natatorium - Joan Diercks (317) 283-3286
28 SCM- SDI, 1135 Garnet-K, San Diego, CA 92109
-
- NOV 4 SCM- Pentathlon, Laguna Hills High Pool - Steve Schofield (818) 992-1820
3-4 SC - Heartland Zone Meet Skip Thompson (313) 683-2191 - Detroit/Ann Arbor
11 SC - John Merryman, 325 Abbey Road, Berwyn, PA 19212
11-12 SCM- Steve Wycoff, Anderson Swim Centers, 1115 Cornelia Rd., Anderson SC 29621
17 SCM- SPMA at Pierce College - Steve Schofield (818) 992-1820
17-19 North Kitsap PNA - Hugh Moore, 29920 2nd Place SW, Federal Way, WA 98023
18 SC - Art Mayer, 1024 Elkton Road, Newark, DE 19711
18 SC - Tim Miller, 18750 Cross Country Lane, Gaithersburg, MD 20879
23-24 LC - Rowdy Gaines, The Oahu Club, 6800 Hawaii Kai Dr., Honolulu, HI 96825
-
- DEC 1-31 Postal 4000 IM - Ann Arbor Masters - Carl Wooley (313) 663-1752
2 SC - Gail Dummer (517) 337-1066 or 355-4744 - Lansing, MI
2 SC - Alicia Coleman, 24 The Point, Coronado, CA 92118
7-9 SCM- Judy Bonning, Mission Bay Masters, 10333 Diego Dr S, Boca Raton, FL 33428
8-9 SCM- SPMA Regionals at Laguna Hill High School - Steve Schofield (818) 1820
8 SC - Enumclaw - Hugh Moore, 29920 2nd Place SW, Federal Way, WA 98023
8-9 SC - Dennis Watson, 2851 Burlwood Dr., Winston-Salem, NC 27103 (919) 768-5185

NATIONAL AND INTERNATIONAL

- MAY 16-19, 1991 USMS SC NATIONALS, NASHVILLE, TN
JUL 11-17, 1991 4TH PAN PACIFIC MASTERS SWIMMING CHAMPIONSHIPS, TOKYO JAPAN
JUL 18-22, 1991 4TH PAN PACIFIC MASTERS WATER POLO CHAMPIONSHIPS, AGANA GUAM
AUG 22-25, 1991 USMS LC NATIONALS, ELIZABETHTOWN, KY
SEP 18-22, 1991 USMS NATIONAL CONVENTION, LOUISVILLE, KY
JUN 27-JUL 5, 1992 4TH FINA/MSI WORLD SWIMMING CHAMPIONSHIPS, INDIANAPOLIS, IN
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