



SWIM - MASTER

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1986 World Top Times - LONG COURSE

50m Free - Women 25-29		100m Back - Women 25-29		200m Fly - Women 25-29		800m Free - Women 30-34		200m Breast - Women 30-34		100m Free - Women 35-39	
26.77	S. Neilson - USA	1:07.46	C. Gibson - CAN	2:26.06	J. Siaba - TCH	10:16.25	S. Thoms - USA	2:56.09	G. Benty - USA	1:03.79	D. Munger - USA
28.1	U. Neubert - FRG	1:07.78	C. Gibson - CAN	2:32.07	C. Neville - USA	10:22.92	S. Berg - USA	2:56.43	K. Gibson - USA	1:03.79	D. Munger - USA
28.42	L. Lanini - USA	1:10.31	B. Billich - FRG	2:33.21	K. Maidment - USA	10:29.03	C. Chay - USA	2:56.51	G. Benty - USA	1:06.26	B. Dick - JPN
28.4	D. Hilbig - FRG	1:10.59	B. Cleary - USA	2:34.46	A. Beardsley - USA	10:30.79	K. Farnsworth - USA	2:57.2	D. R-Frese - USA	1:07.19	M. Kihara - JPN
28.74	B. Billich - USA	1:13.24	U. Neubert - FRG	2:36.54	H. Murray - FRG	10:39.24	P. Mattson - USA	2:58.02	M. Morey - USA	1:07.39	L. Johnson - USA
29.08	S. Bristow - AUS	1:13.75	A. Noble - CAN	2:36.84	C. O'Brien - USA	10:40.55	E. Hochuli - USA	3:01.04	L. Tubergen - USA	1:07.58	C. Jones - USA
29.09	J. Katterman - USA	1:13.79	L. Hasselquist - USA	2:40.26	L. Marlow - USA	10:54.06	D. Rennie - USA	3:04.29	S. Smuck - USA	1:07.79	C. Iannacone - USA
29.43	S. Braun - USA	1:14.02	M. Lloyd - USA	2:40.50	L. Lanini - USA	10:58.21	S. Andrew - USA	3:04.35	V. Stroup - USA	1:07.92	B. Dunbar - USA
29.44	C. Neville - USA	1:14.66	P. Moran - USA	2:44.50	L. Baumhofer - USA	10:59.68	G. Benty - USA	3:06.07	P. Mattson - USA	1:08.52	S. Chandler - USA
29.4	M. Pursley - CAN	1:15.15	K. Ball - AUS	2:45.60	D. Carlson - USA	11:05.82	M. Burick - USA	3:06.51	J. Melick - USA	1:08.8	K. Olsson - SWE
29.51	P. Leahy - USA	1:15.40	J. Leubbert - USA	2:45.72	A. Lepping - USA	11:06.10	C. Merritt - USA	3:06.64	D. Gutierrez - USA	1:09.21	P. Martin - USA
100m Free - Women 25-29		200m Back - Women 25-29		200m Ind. Med. - Women 25-29		1500m Free - Women 30-34		50m Fly - Women 30-34		200m Free - Women 35-39	
59.34	S. Neilson - USA	2:26.27	C. Gibson - CAN	2:30.57	C. Gibson - CAN	18:04.42	S. Pamela - USA	29.98	S. Pamela - USA	2:20.97	D. Munger - USA
1:01.71	L. Lanini - USA	2:26.27	C. Gibson - CAN	2:30.57	C. Gibson - CAN	18:04.42	S. Pamela - USA	29.98	S. Pamela - USA	2:20.97	D. Munger - USA
1:02.71	A. Lepping - USA	2:34.00	B. Billich - USA	2:35.52	B. Billich - USA	19:00.07	M. Morey - USA	30.15	S. Neilson - USA	2:25.77	B. Dunbar - USA
1:02.85	B. Billich - USA	2:39.19	A. Winston - USA	2:36.26	A. Lepping - USA	19:18.71	C. Chay - USA	30.90	L. Clark - USA	2:26.90	S. Chandler - USA
1:03.65	U. Neubert - FRG	2:39.97	A. Noble - CAN	2:36.32	A. Beardsley - USA	19:23.33	J. Hirsty - USA	31.61	S. Skiff - USA	2:28.19	C. Iannacone - USA
1:04.02	B. Crowder - USA	2:40.62	M. Lloyd - USA	2:38.52	C. Neville - USA	20:04.53	H. Ernst - USA	31.97	E. Hochuli - USA	2:29.20	L. Johnson - USA
1:04.46	D. Hilbig - FRG	2:41.99	S. Bristow - AUS	2:39.67	C. Cur - USA	20:17.58	P. Mattson - USA	32.23	M. Grant - USA	2:29.83	P. Martin - USA
1:04.52	C. Neville - USA	2:42.95	J. Sutcliffe - USA	2:39.68	D. Hilbig - FRG	20:20.49	C. Collins - USA	32.26	Z. Boyer - AUS	2:31.97	C. Jones - USA
1:04.67	L. Farna - BRA	2:44.09	C. Funk - USA	2:40.44	L. Lanini - USA	20:35.57	M. Grant - USA	32.37	L. Tubergen - USA	2:32.16	B. Griffiths - NZL
1:04.83	S. Braun - USA	2:44.09	J. Huddell - NZI	2:40.47	M. Lloyd - USA	20:36.94	L. Tubergen - USA	32.59	S. Karrasch - USA	2:35.00	S. Walsh - USA
1:04.85	K. Frazier - USA	2:45.18	J. Leubbert - USA	2:41.28	J. Sutcliffe - AUS	20:38.70	G. Benty - USA	32.64	R. Herring - NZL	2:35.67	S. Peterson - USA
200m Free - Women 25-29		50m Breast - Women 25-29		400m Ind. Med. - Women 25-29		50m Back - Women 30-34		100m Fly - Women 30-34		400m Free - Women 35-39	
2:11.91	L. Marshall - GBR	35.80	M. Whitcomb - USA	5:21.02	C. Gibson - CAN	32.21	K. Neill - USA	1:07.56	S. Pamela - USA	4:56.30	D. Munger - USA
2:11.91	L. Marshall - GBR	35.79	D. Hilbig - FRI	5:27.66	A. Lepping - USA	32.21	K. Neill - USA	1:11.34	S. Berg - USA	4:56.30	D. Munger - USA
2:13.33	A. Lepping - USA	36.62	W. Gray - USA	5:35.93	H. Murray - USA	33.01	L. Clark - USA	1:12.87	D. Rennie - USA	5:06.24	B. Dunbar - USA
2:16.16	C. Neville - USA	36.90	K. Melick - USA	5:37.67	B. Billich - USA	33.42	J. Carey - USA	1:13.13	M. Grant - USA	5:09.81	C. Iannacone - USA
2:16.53	M. Pease - USA	36.91	V. Dobbie - GBI	5:37.69	C. Neville - USA	33.64	Y. Murayama - JPN	1:13.52	E. Hochuli - USA	5:09.95	S. Chandler - USA
2:18.30	S. Bristow - AUS	37.15	A. Maestrini - BRJ	5:40.27	D. Carlson - USA	34.13	T. Walsh - USA	1:14.93	M. Stevens - USA	5:19.37	S. Walsh - USA
2:18.41	C. O'Brien - AUS	37.97	T. Harrigan - USA	5:40.68	C. Cur - USA	34.42	S. Karrasch - USA	1:14.97	L. Huffman - NZL	5:21.52	B. Griffiths - NZL
2:19.57	C. Ferguson - AUS	37.98	Y. Ikeda - JPI	5:41.52	D. Brown - USA	34.65	L. Cleary - USA	1:15.18	L. Tubergen - USA	5:24.31	L. Johnson - USA
2:19.72	J. Katterman - USA	37.98	B. Hamond - AU	5:42.69	J. Huddell - NZL	35.18	S. Skiff - USA	1:15.37	L. Cleary - USA	5:26.05	K. Olsson - SWE
2:20.10	A. Beardsley - USA	38.55	D. Komarek - USA	5:45.21	M. Lloyd - USA	35.54	J. Clifton - AU	1:16.12	Z. Boyer - AUS	5:28.11	K. King - USA
2:21.8	C. Gibson - CAN	38.76	H. Ramsey - AU	5:49.82	L. Griffin - USA	35.67	M. Guerra - BR	1:16.49	K. Sullivan - USA	5:28.18	C. Jones - USA
400m Free - Women 25-29		100m Breast - Women 25-29		50m Free - Women 30-34		100m Back - Women 30-34		200m Fly - Women 30-34		800m Free - Women 35-39	
4:37.65	A. Lepping - USA	1:18.80	I. Svobodava - TCH	26.60	S. Nielson - USA	1:11.26	K. Neill - USA	2:32.71	S. Berg - USA	10:29.22	B. Dunbar - USA
4:37.65	A. Lepping - USA	1:19.93	D. Hilbig - FRI	27.45	J. Hirsty - USA	1:11.26	K. Neill - USA	2:33.65	S. Berg - USA	10:29.22	B. Dunbar - USA
4:43.59	C. Gibson - CAN	1:20.67	A. Maestrini - BR	28.84	L. Clark - USA	1:13.81	J. Carey - USA	2:42.44	M. Stevens - USA	10:29.91	D. Munger - USA
4:45.40	C. Neville - USA	1:20.78	V. Dobbie - GBI	28.99	S. Karrasch - USA	1:14.28	Y. Murayama - JPN	2:43.51	M. Grant - USA	10:52.69	S. Chandler - USA
4:48.70	M. Pease - USA	1:21.66	W. Gray - USA	29.09	K. Neill - USA	1:15.15	T. Walsh - USA	2:45.21	E. Hochuli - USA	11:01.20	C. Iannacone - USA
4:52.89	K. Maidment - AUS	1:22.58	L. Lehmann - AU	29.39	K. Worthen - USA	1:15.97	S. Karrasch - USA	2:51.68	N. Martin - USA	11:03.50	B. Griffiths - NZL
4:54.57	C. Ferguson - AUS	1:23.40	K. Melick - USA	29.80	R. Herring - NZL	1:17.00	L. Cleary - USA	2:54.77	K. Kimura - USA	11:04.66	F. Hare - USA
4:57.60	P. Leahy - USA	1:24.48	P. Feichtner - FRI	29.82	J. Carey - NZL	1:18.02	S. Andrew - AUS	2:57.70	C. Chay - USA	11:18.13	S. Walsh - USA
4:58.62	C. O'Brien - USA	1:24.90	J. Hawksworth - CAI	29.84	M. Grant - NZL	1:18.34	J. Vanderfleet - USA	3:00.96	L. Huffman - NZL	11:23.09	S. Schmidt - CAN
4:59.85	D. Brown - USA	1:25.02	M. Hesse - FRI	29.92	J. Wolff - NZL	1:18.47	S. Berg - USA	3:02.79	Z. Boyer - AUS	11:24.78	M. Richter - SUI
5:00.65	D. Carlson - USA	1:25.79	H. Murray - US.	100m Free - Women 30-34		200m Back - Women 30-34		200m Ind. Med. - Women 30-34		1500m Free - Women 35-39	
9:50.55	M. Pease - USA	2:51.68	D. Hilbig - FRG	58.59	S. Neilson - USA	2:36.61	K. Neill - USA	2:32.73	S. Nielson - USA	19:50.70	B. Dunbar - USA
9:51.01	C. Neville - USA	2:51.68	D. Hilbig - FRG	1:00.47	J. Hirsty - USA	2:37.63	K. Neill - USA	2:32.73	S. Nielson - USA	19:50.70	B. Dunbar - USA
10:00.61	K. Maidment - AUS	2:55.91	V. Dobbie - GB	1:00.84	S. Pamela - USA	2:42.89	S. Andrew - AUS	2:39.88	J. Hirsty - USA	19:50.70	B. Dunbar - USA
10:15.79	A. Lepping - USA	2:56.29	K. Melick - US	1:04.00	S. Karrasch - USA	2:44.97	T. Walsh - USA	2:40.76	M. Grant - AU	20:35.10	C. Iannacone - USA
10:20.57	J. Huddell - NZL	2:57.12	L. Lehmann - AU	1:04.12	K. Worthen - USA	2:48.96	J. Vanderfleet - USA	2:41.92	V. Stroup - USA	20:45.73	S. Chandler - USA
10:21.64	C. O'Brien - USA	2:59.39	W. Gray - US	1:04.21	K. Neill - USA	2:49.03	M. Stevens - USA	2:43.14	M. Stevens - USA	21:10.76	F. Hare - USA
10:26.55	S. Scarff - AUS	2:59.57	A. Maestrini - BR	1:04.84	M. Grant - AU	2:49.94	B. Lindsay - USA	2:43.94	K. Worthen - USA	21:26.00	S. Peterson - USA
10:27.17	D. Carlson - USA	3:05.06	J. Hawksworth - CA	1:05.35	C. Parks - AUS	2:50.64	L. Clark - USA	2:45.52	T. Walsh - USA	21:31.77	T. Martin - USA
10:30.24	K. Frazier - USA	3:05.22	H. Murray - US	1:05.89	H. Ernst - USA	2:52.28	B. Berg - USA	2:46.74	H. Ernst - USA	21:35.38	S. Walsh - USA
10:38.03	S. Blaha - USA	3:06.45	K. Carboni - FR	1:05.91	J. Carey - USA	2:53.65	C. Chay - USA	2:47.43	C. Gutierrez - US.	21:42.85	K. King - USA
1500m Free - Women 25-29		50m Fly - Women 25-29		200m Free - Women 30-34		50m Back - Women 30-34		400m Ind. Med. - Women 30-34		50m Back - Women 35-39	
18:03.34	A. Lepping - USA	29.11	R. O'Leary - USA	2:10.06	S. Neilson - USA	35.37	K. Gibson - AUS	5:28.33	S. Pamela - USA	34.25	C. McCloskey - USA
18:03.34	A. Lepping - USA	29.11	R. O'Leary - USA	2:10.06	S. Neilson - USA	35.37	K. Gibson - AUS	5:28.33	S. Pamela - USA	34.25	C. McCloskey - USA
19:07.55	C. Ferguson - AUS	29.84	L. Lanini - USA	2:10.52	S. Pamela - USA	37.32	L. Tubergen - USA	5:45.87	S. Berg - US.	34.25	C. McCloskey - USA
19:28.24	K. Maidment - AUS	30.10	A. Beardsley - USA	2:13.47	J. Hirsty - USA	37.52	D. R-Frese - FRG	5:47.88	C. Chay - USA	34.39	B. Dick - USA
19:28.33	L. Fischer - USA	30.88	C. Watts - USA	2:19.70	S. Berg - USA	37.74	J. Melick - USA	5:51.51	M. Grant - AU	34.58	M. Kihara - JPN
19:31.38	B. Crowder - USA	31.23	D. Schmidt - USA	2:20.17	K. Worthen - USA	38.05	M. Morey - USA	5:52.15	G. Benty - US.	34.93	G. P-Rogers - GBR
19:35.13	J. Huddell - NZL	31.42	S. Braun - USA	2:20.26	M. Grant - AUS	38.24	S. Smuck - USA	5:53.57	T. Walsh - USA	35.58	J. Hambarger - USA
19:37.84	D. Walker - USA	31.42	S. Braun - USA	2:22.05	H. Ernst - USA	38.31	D. Walker - USA	5:53.70	K. Farnsworth - USA	35.64	J. Calpin - USA
19:56.70	H. Murray - USA	31.61	T. Harrigan - USA	2:22.05	H. Ernst - USA	38.32	G. Ewen - USA	5:55.82	E. Hochuli - USA	35.72	D. Walker - USA
20:07.47	J. Deffeyes - USA	31.71	B. Crowder - USA	2:23.21	K. Neill - USA	38.36	G. Benty - USA	6:04.64	J. Strong - USA	35.97	Y. Goushi - JPN
20:09.71	P. Hummel - USA	31.78	A. Valentini - ITA	2:24.73	C. Chay - USA	38.56	M. Andrews - NZL	6:04.65	S. Smuck - USA	36.32	T. Nakahara - JPN
50m Back - Women 25-29		100m Fly - Women 25-29		400m Free - Women 30-34		100m Breast - Women 30-34		50m Free - Women 35-39		100m Back - Women 35-39	
31.21	C. Gibson - CAN	1:07.06	A. Beardsley - USA	4:33.08	S. Pamela - USA	1:18.88	K. Gibson - AUS	28.96	D. Munger - USA	1:14.51	C. McCloskey - USA
31.21	C. Gibson - CAN	1:07.06	A. Beardsley - USA	4:33.08	S. Pamela - USA	1:18.88	K. Gibson - AUS	28.96	D. Munger - USA	1:14.51	C. McCloskey - USA
32.72	B. Billich - USA	1:08.06	B. Cleary - USA	4:39.31	S. Neilson - USA	1:20.63	D. R-Frese - FRG	30.19	B. Dick - USA	1:16.81	J. Hambarger - USA
32.74	U. Neubert - FRG	1:08.75	L. Lanini - USA	4:50.01	J. Hirsty - USA	1:22.19	G. Benty - USA	30.42	M. Kihara - JPN	1:17.10	B. Dick - USA
33.17	P. Moran - USA	1:09.08	C. Watts - USA	4:55.78	K. Worthen - USA	1:22.70	M. Morey - USA	30.50	C. Jones - USA	1:19.93	B. Griffiths - NZL
33.20	L. Hasselquist - USA	1:09.25	D. Neville - USA	4:56.84	M. Morey - USA	1:23.14	L. Tubergen - USA	30.52	B. Dunbar - USA	1:20.37	S. Schmidt - CAN
33.53	C. Watts - USA	1:09.52	D. O'Brien - USA	4:57.88	S. Berg - USA	1:24.10	D. Walker - USA	30.53	C. Iannacone - USA	1:21.14	J. Burdick - USA
33.89	K. Ball - AUS	1:10.06	M. Pease - USA	4:59.99	C. Chay - USA	1:24.55	S. Smuck - USA	30.63	J. Marriott - NZ	1:21.46	D. Walker - CAN
34.00	A. Noble - CAN	1:10.21	L. Marlow - USA	5:04.80	K. Neill - USA	1:24.55	V. Stroup - USA	30.77	D. Phillips - CA	1:21.5	E. Zimmerman - FRG
34.06	P. Feichtner - FRG	1:10.74	R. O'Leary - USA	5:09.12	M. Stevens - USA	1:24.85	C. Gutierrez - USA	30.78	D. Walker - USA	1:22.97	M. Frank - USA
34.61	N. Stevens - USA	1:11.20	K. Maidment - AUS	5:09.65	M. Grant - AU	1:25.08	J. Melick - USA	30.82	D. Martin - US	1:23.3	K. Olsson - SWE

200m Back - Women 35-39 2:43.47 - C. McCloskey - USA	50m Free - Women 40-44 29.10 - A. Mueller - USA	50m Breast - Women 40-44 38.37 - G. Pierson - USA	100m Free - Women 45-49 1:09.42 - J. Correa - USA	100m Breast - Women 45-49 1:28.07 - J. Leilich - USA	200m Free - Women 50-54 2:38.26 - J. Correa - USA
2:43.47 C. McCloskey USA 2:47.84 B. Dick USA 2:49.43 J. Hamburger USA 2:51.54 D. Walker USA 2:53.35 B. Griffiths USA 2:55.83 T. Nakahara NZL 2:55.84 S. Schmidt CAN 2:55.92 S. Walsh USA 2:57.44 R. Willmore AUS 2:59.71 J. Burdick USA	29.82 C. Johnson USA 30.00 R. Willmore USA 30.21 N. Ridout USA 30.39 G. Winter FRG 30.41 A. Neuman FRG 30.66 D. Todd USA 31.68 S. Herrington USA 31.74 J. Fleming AUS 31.80 C. Fleming AUS 32.00 B. Nichol AUS	38.37 G. Pierson USA 38.75 C. Johnson USA 40.49 A. Ford GBR 40.50 A. Voelcker FRG 40.54 V. Boyd AUS 40.62 N. Asakura JPN 40.71 R. Willmore AUS 40.88 M. Senftleben FRG 41.22 G. Esser FRG 41.59 R. Luitjens FRG	1:09.60 Y. Oosaki JPN 1:11.24 L. Weir USA 1:11.72 S. Rademaker USA 1:12.41 E. Roepke USA 1:12.51 D. Fraser AUS 1:13.55 J. Royer AUS 1:14.74 J. Seidl FRG 1:15.25 A. Konig FRG 1:15.44 M. Schulze FRG 1:16.30 A. Kreisel FRG	1:29.86 J. Leilich USA 1:32.12 A. Mueller USA 1:32.51 D. Theissen FRG 1:32.70 I. Luning FRG 1:33.98 D. Burke USA 1:35.06 M. Haugland USA 1:35.28 G. Robinson USA 1:35.81 P. Asahi JPN 1:37.13 J. Harrison USA 1:37.70 K. Kajiwara JPN	2:38.26 J. Correa USA 2:41.78 L. Stoinoff USA 2:52.92 R. Motter USA 2:54.25 H. Mulder FRG 2:54.61 B. Wilson USA 2:56.25 H. Buss USA 2:58.09 H. Satoh JPN 2:58.61 R. Kamphausen USA 3:03.52 M. McQuade AUS 3:03.69 A. Christensen USA
50m Breast - Women 35-39 37.04 - G. Pierson - USA	100m Free - Women 40-44 1:06.92 C. F-Johnson - USA	100m Breast - Women 40-44 1:24.95 - G. Pierson - USA	200m Free - Women 45-49 2:33.11 - J. Correa - USA	200m Breast - Women 45-49 3:11.24 - J. Leilich - USA	400m Free - Women 50-54 5:37.18 - L. Stoinoff - USA
37.99 D. Munger USA 38.05 M. Phelan USA 38.27 D. Walker USA 38.63 C. Heeren FRG 39.19 J. MacLeod AUS 39.90 C. Kingsbeer NZL 40.20 S. Sukrow FRG 40.23 G. Marklein FRG 40.28 C. Sliimak USA	1:06.98 C. F-Johnson USA 1:09.24 B. Merten FRG 1:09.81 J. Watson AUS 1:10.11 C. Fleming AUS 1:10.23 G. Winter FRG 1:10.68 N. Ridout USA 1:11.59 D. Todd USA 1:12.18 M. Wood CAN 1:12.36 P. Anderson USA 1:13.14 S. Herrington USA	1:24.95 G. Pierson USA 1:25.46 C. Johnson USA 1:26.77 D. Ford GBR 1:27.37 A. Voelcker FRG 1:29.80 V. Boyd AUS 1:31.30 N. Asakura JPN 1:31.58 M. Senftleben FRG 1:31.83 G. Esser FRG 1:32.65 M. Luitjens CAN 1:33.61 R. Wootton USA	2:31.31 A. Mueller USA 2:36.06 Y. Oosaki JPN 2:38.00 L. Weir USA 2:41.33 J. Royer USA 2:42.98 D. Fraser AUS 2:46.48 J. Seidl FRG 2:47.90 A. Kreisel FRG 2:50.12 E. Roepke FRG 2:50.74 J. Jeter USA 2:50.81 A. Konig USA 2:51.75 S. Blake USA	3:11.24 J. Leilich USA 3:20.24 D. Theissen FRG 3:21.31 I. Luning FRG 3:22.72 D. Burke USA 3:27.12 G. Robinson USA 3:28.29 U. Feike FRG 3:28.36 T. Asahi JPN 3:28.69 G. Scheffler FRG 3:31.30 M. Haugland USA 3:32.29 J. Harrison USA	5:37.18 L. Stoinoff USA 5:56.20 H. Buss USA 6:03.12 B. Wilson USA 6:05.63 H. Evans USA 6:10.34 R. Kamphausen USA 6:16.79 A. Christensen USA 6:22.30 H. Satoh JPN 6:25.52 M. McQuade USA 6:28.89 A. Pipes USA 6:32.08 D. Werry USA
100m Breast - Women 35-39 1:22.00 - Cattrall - CAN	200m Free - Women 40-44 2:24.38 - A. Mueller - USA	200m Breast - Women 40-44 3:07.35 - G. Pierson - USA	400m Free - Women 45-49 5:28.88 - H. Buss - USA	50m Fly - Women 45-49 34.07 - J. Bruner - USA	800m Free - Women 50-54 11:50.96 - L. Stoinoff - USA
1:24.71 M. Phelan US/ 1:25.07 C. Heeren FRC 1:26.58 D. Walker US/ 1:27.39 J. Gettling US/ 1:28.41 C. Sliimak US/ 1:29.00 S. Chandler US/ 1:29.57 J. MacLeod AUS/ 1:29.88 C. Kingsbeer NZL/ 1:31.26 G. Marklein FRC/ 1:31.38 K. Casey US/	2:32.12 C. Johnson USA 2:34.30 B. Merten FRG 2:36.54 J. Katz FRG 2:38.32 J. Watson USA 2:38.42 N. Ridout USA 2:39.70 A. Neumann FRG 2:41.96 P. Anderson USA 2:42.91 C. Fleming AUS 2:42.91 A. Swanson USA 2:43.80 D. Todd USA	3:07.35 G. Pierson USA 3:11.72 A. Voelcker FRG 3:12.26 D. Ford GBR 3:22.97 M. Senftleben FRG 3:23.44 J. Sherman USA 3:24.10 V. Boyd AUS 3:27.99 M. Wood CAN 3:28.65 E. Ikeda JPN 3:29.14 T. Kinomoto JPN 3:29.44 K. Aoyama JPN	5:28.88 H. Buss USA 5:29.55 A. Mueller USA 5:29.05 J. Royer USA 5:29.64 L. Weir USA 5:42.15 D. Fraser AUS 6:01.45 H. McIntosh AUS 6:01.77 J. Jeter USA 6:03.55 A. Konig USA 6:10.57 S. Blake USA 6:10.73 C. Jenkins USA 6:11.79 S. Munn USA 6:12.83 B. Jordan USA	34.07 J. Bruner USA 36.09 H. Kampschulte FR 36.63 S. Rademaker US/ 36.76 J. Seidl FRC 37.40 C. Jenkins US/ 37.50 K. Ahlstrom SWI 38.43 M. Schulze FRC 39.20 J. Royer US/ 39.22 B. Jordan AU/ 39.37 H. Rogers NZ/ 39.57 L. Griffin US/	11:50.96 L. Stoinoff USA 12:27.70 R. Motter USA 12:31.94 B. Wilson AUS 12:56.38 R. Kamphausen US/ 13:00.35 H. Satoh JPN 13:03.21 D. Stowell USA 13:08.40 A. Christensen USA 13:26.83 J. Clements NZL 13:37.54 A. Pipes USA 13:57.57 K. Easun CAN
200m Breast - Women 35-39 3:01.45 - Y. Cattrall - CAN	400m Free - Women 40-44 5:00.18 - A. Mueller - USA	50m Fly - Women 40-44 3:16 - A. Mueller - USA	800m Free - Women 45-49 11:20.07 - J. Royer - USA	100m Fly - Women 45-49 1:15.63 - A. Mueller - USA	1500m Free - Women 50-54 22:16.67 - L. Stoinoff - USA
3:06.98 D. Walker US/ 3:07.42 C. Heeren FRC 3:10.82 S. Chandler US/ 3:14.09 S. Walsh US/ 3:15.67 C. Sliimak US/ 3:18.26 C. Kingsbeer NZL 3:19.13 N. Stanbury SWI 3:19.39 M. Richter US/ 3:20.73 J. Eichner FRC/ 3:21.00 P. Rock AU/	5:28.86 J. Katz USA 5:34.51 N. Ridout USA 5:40.25 C. Fleming AUS 5:43.39 J. Watson AUS 5:46.24 P. Maley USA 5:46.35 S. Dills USA 5:47.06 A. Swanson USA 5:48.24 E. Fleig AUS 5:49.44 P. Anderson USA 5:50.80 L. Brownstein USA	33.47 R. Willmore AUS 34.70 N. Ridout USA 34.51 P. Anderson USA 34.58 G. Winter FRG 34.78 B. Merten FRG 35.30 D. Todd USA 35.63 G. Pierson USA 35.63 R. Matkuma BRA 35.69 N. Deal USA 36.13 E. Fleig FRG	11:20.07 J. Royer USA 11:21.32 L. Weir USA 12:01.92 D. Fraser USA 12:17.24 J. Seidl FRG 12:27.52 J. Jeter FRG 12:36.73 E. Roepke USA 12:36.93 M. Smith USA 12:38.40 S. Munn USA 12:56.82 C. Jenkins USA 13:04.05 M. McIntosh AUS	1:15.63 A. Mueller US/ 1:25.95 J. Seidl FRC 1:26.92 L. Griffin US/ 1:29.32 J. Royer US/ 1:29.65 E. Roepke US/ 1:34.27 T. Asahi JPT 1:37.97 M. McIntosh AU/ 1:38.02 M. Schulze FRI/ 1:38.90 S. Munn US/ 1:40.72 M-L Stolte FRI/	22:16.67 L. Stoinoff USA 22:58.92 H. Buss USA 24:09.99 R. Kamphausen USA 24:46.40 D. Stowell USA 25:31.85 A. Christensen USA 25:36.45 D. Werry USA 26:39.30 K. Vourlis USA 27:01.87 J. Detrick USA 27:15.00 H. Evans AUS 27:39.19 J. Johnson USA
50m Fly - Women 35-39 32.22 - C. F-Farmer - USA	800m Free - Women 40-44 10:57.06 - A. Mueller - USA	100m Fly - Women 40-44 1:11.80 - A. Mueller - USA	1500m Free - Women 45-49 21:26.16 - H. Buss - USA	200m Fly - Women 45-49 3:09.78 - H. Buss - USA	50m Back - Women 50-54 38.69 - J. Bruner - USA
32.42 S. Chandler US/ 32.83 B. Dunbar JP 33.27 M. Kithara JP 33.28 M. Itoh JP 33.47 B. Dick US/ 33.54 S. Walsh US/ 33.62 J. Gettling US/ 33.64 C. Jones US/ 33.65 J. MacLeod AU/ 33.73 L. Johnson US/	11:03.55 J. Katz USA 11:49.75 A. Leach NZL 11:54.79 P. Anderson USA 11:55.32 M. Maley USA 12:01.76 M. Harlow USA 12:05.33 B. Bukowski CAN 12:12.47 L. Brownstein USA 12:16.51 C. Clarke AUS 12:34.70 J. Sherman USA	1:11.80 A. Mueller USA 1:18.42 N. Ridout USA 1:21.52 P. Anderson USA 1:24.82 J. Katz USA 1:26.33 P. Giordano USA 1:26.81 G. Esser FRG 1:28.43 S. Dills USA 1:31.04 D. Ford GBR 1:31.92 B. Jensen AUS 1:31.99 E. Fleig USA 1:32.80 R. Matkuma BRA	21:26.16 H. Buss USA 21:48.53 J. Royer USA 23:52.13 S. Munn USA 23:55.00 J. Jeter USA 24:59.62 B. Zaremski USA 25:29.18 L. Murray USA 26:07.37 C. Newey USA 26:28.73 A. Gindroz USA 26:49.17 C. Ernststein USA 26:50.00 R. Henze USA 26:54.67 L. Beaver USA	3:09.78 H. Buss USA 3:19.65 J. Seidl FRC 3:23.73 J. Royer US/ 3:35.53 L. Griffin US/ 3:47.96 B. Zaremski US/ 3:49.07 B. Dreher US/ 3:49.69 J. Odium CA/ 3:59.59 R. Boberski US/ 4:00.42 M. Smith AU/ 4:02.64 N. Hanan US/ 4:03.48 A. Leach NZ/	38.69 J. Bruner USA 39.25 J. Correa USA 40.27 W. Gray CAN 40.72 J. Clements NZL 41.43 C. Maier FRC 41.74 R. Motter USA 41.90 H. Holer FRG 42.09 M. McQuade USA 42.73 R. Kamphausen AUS 42.73 A. Champ USA
100m Fly - Women 35-39 1:10.36 - B. Dunbar - USA	200m Fly - Women 35-39 2:36.20 - B. Dunbar - USA	200m Ind Med - Women 40-44 2:46.81 - A. Mueller - USA	100m Back - Women 45-49 1:21.04 - B. Jordan - USA	200m Ind Med - Women 45-49 2:47.70 - A. Mueller - USA	200m Back - Women 50-54 3:04.62 - J. Correa - USA
1:10.68 S. Chandler US 1:11.77 B. Dunbar US 1:12.32 S. Walsh US 1:15.58 S. Bray NZ 1:16.17 L. Johnson US 1:16.40 C. R-Prosch US 1:17.26 J. Gettling US 1:17.47 S. M-Bloch FR 1:18.23 J. Hamburger US 1:18.84 P. Mueller US	2:36.20 B. Dunbar USA 2:38.39 S. Walsh USA 2:38.67 S. Chandler USA 2:44.93 J. Torley USA 2:56.45 S. Bray NZL 2:59.69 J. Gettling USA 3:02.82 D. Staley USA 3:12.21 S. Rousseau USA 3:16.89 C. Justesen USA 3:17.59 C. Zimmet USA	2:46.81 A. Mueller USA 2:49.10 C. Johnson USA 2:53.09 B. Merten FRG 2:55.16 C. Chidester USA 3:03.91 J. Katz FRG 3:04.90 G. Pierson USA 3:08.92 J. Sherman USA 3:09.38 V. Boyd USA 3:09.59 M. Ostad USA 3:10.38 P. Giordano USA 3:10.76 B. Bennett USA	1:21.04 B. Jordan USA 39.29 L. Griffin USA 39.34 A. Kinnaird USA 39.83 S. Bramham GBR 39.90 K. Ahlstrom SWE 40.40 S. Takeshima JPN 40.50 U. Kastner FRG 40.91 V. Silva BRA 41.12 S. Rademaker USA 41.48 K. Roach USA	2:47.70 A. Mueller USA 2:47.70 A. Mueller US/ 3:03.91 L. Weir US/ 3:08.41 J. Seidl FRC 3:10.83 B. Osselmann FR/ 3:11.48 A. Kreisel FR/ 3:12.75 J. Royer US/ 3:13.39 J. Leilich US/ 3:14.06 E. Roepke US/ 3:15.79 D. Burke US/ 3:17.40 C. Jenkins US/	3:04.62 J. Correa US 3:13.02 L. Stoinoff NZ 3:16.58 J. Clements NZ 3:17.41 W. Gray CA 3:21.29 R. Motter US 3:25.55 A. Champ US 3:25.67 R. Kamphausen US 3:27.03 M. Mendes BR 3:34.23 M. McQuade BR 3:34.39 M. Ribeiro BR
200m Ind Med - Women 35-39 2:42.43 - S. Chandler - USA	50m Back - Women 40-44 35.09 - S. Takeuji - JPN	400m Ind Med - Women 40-44 5:53.62 - A. Mueller - USA	200m Back - Women 45-49 1:21.04 - B. Jordan - USA	50m Free - Women 50-54 31.10 - J. Bruner - USA	100m Breast - Women 50-54 1:31.35 - J. Bruner - USA
2:42.43 S. Chandler USA 2:45.04 S. Walsh USA 2:46.38 C. McCloskey USA 2:51.33 B. Dunbar USA 2:52.28 J. Hamburger USA 2:53.86 C. Heeren FRG 2:54.96 J. Gettling USA 2:55.02 L. Johnson USA 2:56.83 D. Phillips CAN 2:57.05 J. Calpin USA	35.74 H. Satoh JPI 36.25 R. Willmore AU/ 36.39 A. Neuman FRI/ 36.61 C. Chidester US/ 37.09 E. Hausberger US/ 37.13 G. Winter FRI/ 37.69 R. Cutolo IT/ 37.83 B. Merten FRI/ 38.09 R. White US/ 38.10 M. Stanton AU/	5:53.62 A. Mueller USA 6:18.97 J. Katz USA 6:36.80 G. Pierson USA 6:38.26 J. Sherman USA 6:48.92 P. Giordano USA 6:49.34 S. Dills USA 6:50.04 L. Brownstein USA 7:09.86 R. White USA 7:12.75 P. Maley USA 7:13.87 R. Jensen USA	1:21.04 B. Jordan USA 1:24.61 B. Jordan USA 1:26.52 A. Mueller USA 1:27.81 S. Bramham GBR 1:27.83 L. Griffin USA 1:29.05 U. Kastner FRG 1:29.79 S. Rademaker FRG 1:29.90 K. Ahlstrom SWE 1:30.55 A. Kinnaird USA 1:31.06 A. Konig USA 1:31.12 B. Osselmann FRG	31.10 J. Bruner USA 32.19 J. Correa USA 34.07 M. McQuade AUS 34.71 H. Satoh JPN 34.72 A. McKay NZL 34.86 U. Frohlich FRG 35.23 L. Stoinoff USA 35.25 R. Motter USA 35.27 D. Stowell USA 35.50 H. Mulder FRG	1:31.35 J. Bruner US 1:37.52 G. Leineweber FR 1:37.84 K. Hesse FR 1:38.97 G. Kurz FR 1:40.83 R. Marting IT 1:41.10 U. Frohlich FR 1:41.28 D. Stowell US 1:42.09 A. Sumner FR 1:42.36 L. Stoinoff US 1:43.63 E. Metzger FR
400m Ind Med - Women 35-39 5:40.56 - B. Dunbar - USA	200m Back - Women 40-44 2:47.57 - C. Chidester - USA	50m Free - Women 45-49 30.43 - J. Correa - USA	50m Breast - Women 45-49 39.86 - J. Leilich - USA	100m Free - Women 50-54 1:11.24 - J. Bruner - USA	100m Breast - Women 50-54 1:31.35 - J. Bruner - USA
5:45.46 S. Chandler USA 5:47.36 S. Walsh USA 6:16.18 J. Hamburger USA 6:26.07 J. Gettling USA 6:31.77 H. DeWitt USA 6:35.26 C. Zimmet USA 6:36.31 B. Rague USA 6:36.49 K. Casey USA 6:38.74 S. Schaffer USA 6:40.30 K. Ecker USA	2:49.91 S. Takeuji JPI 2:52.59 C. Chidester US/ 3:02.22 E. Fleig AU/ 3:02.80 J. Katz US/ 3:06.38 S. Herrington US/ 3:10.61 E. Hausberger US/ 3:12.04 B. Bennett US/ 3:12.66 J. Trenck US/ 3:14.79 B. Frid US/ 3:17.44 R. White US/	30.43 J. Correa USA 31.97 Y. Oosaki JPN 32.08 D. Fraser FRC 32.45 J. Seidl FRG 32.58 S. Rademaker USA 32.85 J. Jeter USA 33.00 M. Shamoto JPN 33.20 A. Konig USA 33.44 M. Schulze USA 33.47 S. Bramham GBR 33.57 B. Zaremski USA	39.86 J. Leilich USA 41.22 J. Leilich USA 42.55 I. Luning FRG 42.91 B. Huidol FRG 42.92 G. Robinson AUS 42.97 D. Theissen FRG 43.23 K. Kajiwara JPN 43.29 M. Haugland USA 43.30 B. Tyllinski FRG 44.00 G. Schwarz FRG 44.24 J. Harrison USA	1:11.24 J. Bruner USA 1:11.24 J. Correa USA 1:17.64 R. Motter USA 1:18.54 M. McQuade AUS 1:18.94 H. Satoh JPN 1:19.09 L. Stoinoff USA 1:19.52 H. Mulder USA 1:19.54 B. Wilson USA 1:20.10 U. Frohlich FRG 1:20.15 D. Stowell USA	1:31.35 J. Bruner US 1:37.52 G. Leineweber FR 1:37.84 K. Hesse FR 1:38.97 G. Kurz FR 1:40.83 R. Marting IT 1:41.10 U. Frohlich FR 1:41.28 D. Stowell US 1:42.09 A. Sumner FR 1:42.36 L. Stoinoff US 1:43.63 E. Metzger FR

200m Breast - Women 50-54 3:14.70 - F. Colliolly - GBR	400m Free - Women 55-59 5:21.20 - G. Roper - USA	50m Fly - Women 55-59 35.29 - G. Roper - USA	800m Free - Women 60-64 13:22.26 - J. Krauser - USA	100m Fly - Women 60-64 1:38.21 - J. Eppley - USA	1500m Free - Women 65-69 28:26.39 - J. McColister - USA
3:14.70 F. Colliolly GBR	6:16.14 G. Roper US	37.12 G. Roper US	12:34.42 C. Walker USA	1:40.05 J. Krauser USA	29:29.59 J. McColister USA
3:32.15 G. Leineweber FRG	6:16.48 A. Adams US	40.27 P. Adams USA	13:22.26 J. Krauser USA	1:53.73 C. Costello USA	29:58.00 J. Eppley USA
3:35.65 J. Bruner USA	6:32.80 H. Evans AU	42.59 P. Dotson USA	13:29.96 F. Carr USA	1:55.95 F. Carr USA	30:01.20 B. Burrill USA
3:35.89 D. Stowell USA	6:37.52 P. Dotson US	43.20 J. Sansom USA	14:12.73 J. Hepner USA	1:57.40 R. Landauer USA	30:10.65 N. Phillips USA
3:37.11 G. Kurz FRG	6:39.59 D. Reed US	43.31 R. Nawada JPN	14:31.75 R. Monohan NZL	1:59.45 S. Erickson USA	30:20.77 M. Lee USA
3:39.38 L. Stoinoff USA	6:48.09 J. Troy US	45.04 E. Gruender USA	14:44.82 C. Costello USA	2:00.43 S. Stinson USA	31:12.14 S. Marvel USA
3:39.95 A. Sumner FRG	6:52.55 A. Hazen US	47.24 J. Dunlop USA	15:03.47 B. Montgomery USA	2:01.8 G. Bohmer FRG	31:34.21 Y. Frischhertz USA
3:43.69 E. Metzger FRG	6:53.43 M. Olshan US	47.35 E. Nestler USA	15:09.16 E. Wessner USA	2:03.38 M. Wells USA	32:24.02 M. Reeves USA
3:46.65 Y. Tsuchiya JPN	6:53.94 A. Pisciotta US	47.92 A. Pisciotta USA	15:11.13 M. Watson USA	2:03.64 B. Dunn USA	32:53.42 E. Hesthal USA
3:47.22 L. Kron USA	7:02.91 J. McIntyre US	48.31 A. Dallam USA	15:14.66 B. Grace AUS	2:03.92 R. Manfredi USA	32:56.93 Z. Taft USA
50m Fly - Women 50-54 34.67 - J. Bruner - USA	800m Free - Women 55-59 12:46.42 - G. Roper - USA	100m Fly - Women 55-59 1:27.49 - G. Roper - USA	1500m Free - Women 60-64 23:55.57 - C. Walker - USA	200m Fly - Women 60-64 3:34.66 - J. Krauser - USA	50m Back - Women 65-69 44.40 - P. Down - AUS
34.67 J. Bruner USA	12:46.42 G. Roper US	1:31.89 G. Roper USA	23:55.57 C. Walker USA	3:34.66 J. Krauser USA	44.44 P. Down AUS
38.24 H. Holer FRG	12:59.61 A. Adams US	1:36.66 A. Adams USA	25:18.89 J. Krauser USA	4:17.78 S. Stinson USA	44.64 J. Drake AUS
39.68 H. Mulder FRG	13:07.28 H. Evans AU	1:38.62 P. Dotson USA	25:49.04 L. Hepner USA	4:20.63 R. Manfredi USA	45.09 B. Anderson AUS
40.16 J. Oliver CAN	13:35.13 M. Timmins US	1:43.62 H. Kern FRG	25:59.97 F. Carr USA	4:28.67 M. Wells USA	46.25 W. Van Rysel GBR
40.50 A. Christensen USA	13:58.03 M. Olshan US	1:44.89 A. Pisciotta USA	26:47.90 S. Erickson USA	4:30.86 F. Carr USA	46.90 B. Condon GBR
40.73 M. Kimoto JPN	14:16.23 E. Gruender USA	1:47.54 E. Gruender USA	27:04.21 J. Monohan NZL	4:50.73 G. Olsen USA	47.05 B. Stern FRG
40.75 J. Whisman USA	14:21.23 A. Pisciotta US	1:48.07 B. Russ USA	28:17.12 G. Altus USA	4:56.99 B. Carter USA	48.12 G. Pfannmuller FRG
41.89 A. Champ USA	14:25.49 J. Troy US	1:49.84 E. Nestler USA	29:05.58 D. Lachasse USA	5:15.21 Y. Hasegawa JPN	49.41 L. Arbogast USA
42.33 D. Stowell USA	14:30.11 A. Hazen US	1:55.12 B. Jones AUS	29:27.00 J. Meryman USA	5:29.04 C. Gosselein CAN	50.11 M. Zint FRG
42.43 B. Callison USA	14:31.21 J. McIntyre US	1:55.24 J. Sansom AUS	29:50.00 B. Grace AUS	5:29.22 M. Clarke USA	50.13 M. Brown USA
100m Fly - Women 50-54 1:24.40 - J. Bruner - USA	1500m Free - Women 55-59 23:55.10 - C. Walker - USA	200m Fly - Women 55-59 3:19.84 - G. Roper - USA	50m Back - Women 60-64 40.58 - D. Steadman - USA	200m Ind Med - Women 60-64 3:17.40 - C. Walker - USA	100m Back - Women 65-69 1:39.33 - B. Anderson - AUS
1:24.40 J. Bruner USA	23:55.10 C. Walker USA	3:31.45 G. Roper US	40.58 D. Steadman USA	3:17.40 C. Walker USA	1:39.33 B. Anderson AUS
1:29.14 H. Holer FRG	25:32.42 E. Gruender US	3:43.16 P. Dotson US	41.11 C. Walker USA	3:33.85 J. Krauser USA	1:40.43 J. Drake AUS
1:32.76 H. Mulder FRG	26:25.80 M. Olshan US	3:45.16 A. Adams US	44.60 D. Lachasse USA	3:39.18 F. Carr USA	1:49.67 N. Phillips USA
1:35.66 J. Oliver CAN	27:04.48 A. Hazen US	3:51.45 A. Pisciotta US	46.15 F. Carr USA	3:39.94 C. Williams USA	1:50.97 W. Van Rysel GBR
1:37.00 R. Motter USA	27:25.10 B. Russ US	3:52.80 A. Pisciotta US	46.56 C. Williams USA	3:44.50 M. Cunningham USA	1:50.98 Y. Frischhertz USA
1:37.72 H. Buss USA	27:41.31 B. Turcotte US	4:02.81 A. Dallam US	46.79 O. Johnson NZL	3:45.77 L. Hepner USA	1:53.16 M. Brown USA
1:42.11 B. Callison USA	27:41.56 A. Pisciotta US	4:08.07 E. Gruender US	47.65 M. Tan JPN	3:46.13 D. Lachasse USA	1:53.41 G. Pfannmuller FRG
1:42.13 A. Christensen USA	28:06.73 J. Smith US	4:14.19 E. Rogers USA	47.80 J. Meryman USA	3:51.80 D. Ressegui USA	1:53.56 C. Thiel FRG
1:42.89 B. Wilson AUS	28:38.74 G. Jones AU	4:19.43 H. Olshan US	48.02 U. Kuwahara JPN	3:52.91 D. Donnelly USA	1:54.24 G. Zint USA
1:42.90 D. Werry USA	29:10.69 J. McIntyre US	3:07.65 G. Roper - USA	49.23 I. Apinee CAN	3:54.43 S. Stinson USA	1:55.03 E. Rauner FRG
200m Fly - Women 50-54 3:15.92 - G. Roper - USA	400m Ind Med - Women 50-54 6:35.20 - G. Roper - USA	300m Back - Women 55-59 3:11.43 - C. Walker - USA	100m Back - Women 60-64 1:31.06 - C. Walker - USA	400m Ind Med - Women 60-64 6:59.45 - C. Walker - USA	200m Back - Women 65-69 3:37.55 - B. Anderson - AUS
3:15.92 G. Roper USA	6:35.20 G. Roper USA	3:11.43 C. Walker USA	1:31.06 C. Walker USA	6:59.45 C. Walker USA	3:37.55 B. Anderson AUS
3:42.41 J. Oliver CAN	41.15 A. Shimizu JPN	3:19.26 G. Roper US	1:31.06 C. Walker USA	6:59.45 C. Walker USA	3:41.61 J. Drake AUS
3:43.81 R. Kamphausen USA	41.37 A. Adams USA	3:24.62 A. Adams US	1:32.21 D. Steadman USA	7:24.10 D. Krauser USA	3:50.23 P. Down AUS
3:46.30 B. Wilson AUS	42.26 J. Parnell CAN	3:33.31 A. Pisciotta US	1:40.67 F. Carr USA	7:44.28 F. Carr USA	3:57.32 N. Phillips USA
3:55.00 D. Ross AUS	43.73 E. Bohm FRG	3:42.71 J. Gulyas CAN	1:41.28 D. Lachasse USA	8:10.86 S. Scholer USA	3:58.86 Y. Frischhertz USA
3:57.31 D. Werry USA	44.04 K. Oooka JPN	3:43.90 J. Dunlop USA	1:42.07 C. Williams USA	8:19.21 R. Billard USA	4:02.58 M. Brown USA
3:58.17 B. Callison USA	44.63 B. Greeham USA	3:47.23 E. Gruender USA	1:47.73 O. Johnson NZL	8:39.47 N. Blackledge USA	4:12.47 M. Lee USA
4:01.98 N. Prentice NZL	45.66 M. Timmins USA	3:48.44 A. Rogers USA	1:47.88 J. Meryman USA	8:39.81 R. Manfredi USA	4:15.14 G. Zint USA
4:04.88 L. Kron USA	45.67 P. Bruce AUS	3:48.65 P. Dotson USA	1:49.59 U. Kuwahara JPN	8:46.17 S. Stinson USA	4:15.28 L. Heath USA
4:13.40 A. Pipes USA	46.33 A. Pisciotta USA	3:49.90 J. Reed USA	1:49.82 I. Apinee CAN	9:00.40 E. Wessner USA	4:16.64 L. Kelley USA
4:18.29 D. Monroe USA	47.01 R. Turcotte USA	3:50.91 D. Ross FRG	1:50.33 J. Krauser USA	9:04.19 G. Altus USA	
200m Ind Med - Women 50-54 3:05.13 - J. Bruner - USA	100m Back - Women 55-59 1:27.61 - C. Walker - USA	400m Ind Med - Women 55-59 6:42.05 - G. Roper - USA	200m Back - Women 60-64 3:16.98 - C. Walker - USA	50m Free - Women 65-69 36.90 - D. Ressegui - USA	50m Breast - Women 65-69 49.14 - H. Loser - FRG
3:05.13 J. Bruner USA	1:27.61 C. Walker USA	6:42.05 G. Roper USA	3:16.98 C. Walker USA	36.90 D. Ressegui USA	49.14 H. Loser FRG
3:08.91 J. Bruner USA	1:32.28 A. Adams USA	7:02.55 G. Roper US	3:20.77 D. Steadman USA	37.64 C. Kerr CAN	49.16 H. Loser FRG
3:17.61 H. Mulder FRG	1:34.00 A. Shimizu JPN	7:27.83 A. Adams USA	3:38.45 D. Lachasse USA	37.64 J. Drake USA	49.86 G. Zint USA
3:21.11 L. Stoinoff USA	1:34.39 J. Parnell CAN	7:30.31 A. Pisciotta US	3:39.58 F. Carr USA	39.17 B. Anderson AUS	51.19 E. Rauner FRG
3:24.57 D. Stowell USA	1:35.89 K. Oooka JPN	7:57.67 E. Gruender USA	3:48.13 C. Williams USA	39.37 P. Down AUS	51.35 C. Gandolpho BRA
3:27.52 R. Kamphausen USA	1:39.02 E. Bohm FRG	8:02.66 E. Rogers USA	3:50.05 J. Krauser USA	39.76 G. Pfannmuller FRG	51.74 J. Fritze FRG
3:30.72 J. Oliver CAN	1:39.84 P. Bruce AUS	8:12.50 M. Olshan USA	3:52.88 S. Erickson USA	39.95 N. Phillips USA	52.70 T. Eicker FRG
3:31.81 B. Wilson AUS	1:42.82 B. Greeham USA	8:19.27 P. Logan NZL	3:54.37 O. Johnson NZL	39.99 L. Kelley USA	52.90 H. Messing USA
3:31.92 J. Lamott USA	1:44.70 A. Pisciotta USA	8:23.13 J. Dunlop USA	3:55.59 M. Watson USA	40.82 H. Loser FRG	54.87 H. Santoh JPN
3:32.72 R. Tautz FRG	1:44.97 R. Turcotte USA	8:23.15 A. Dallam USA	3:57.61 I. Apinee CAN	41.98 A. Etienne USA	56.03 D. Woodside USA
3:33.07 A. Champ USA	1:45.18 J. McIntyre USA	8:28.29 T. Bryan AUS	45.86 C. Costello - USA		57.41 S. Joy USA
400m Ind Med - Women 50-54 6:35.20 - G. Roper - USA	200m Back - Women 55-59 3:11.43 - C. Walker - USA	50m Free - Women 60-64 35.01 - O. Johnson - NZL	44.40 C. Costello USA	100m Free - Women 65-69 1:26.56 - C. Kerr - CAN	100m Breast - Women 65-69 1:50.29 - G. Zint - USA
6:35.20 G. Roper USA	3:11.43 C. Walker USA	35.01 O. Johnson NZL	44.40 C. Costello USA	1:26.56 C. Kerr CAN	1:50.29 G. Zint USA
6:49.69 L. Stoinoff USA	3:26.41 A. Adams USA	35.01 O. Johnson NZL	46.53 C. Walker USA	1:26.56 C. Kerr CAN	1:52.55 G. Zint USA
7:06.64 R. Kamphausen USA	3:28.37 J. Parnell CAN	35.89 D. Donnelly USA	48.54 S. Suzuki JPN	1:28.26 J. Drake AUS	1:53.67 E. Rauner FRG
7:40.21 D. Werry USA	3:34.29 K. Oooka JPN	35.95 C. Walker USA	50.25 T. Mita JPN	1:29.66 B. Anderson AUS	1:53.69 C. Gandolpho BRA
7:47.11 B. Callison USA	3:38.44 P. Bruce AUS	36.12 M. Cunningham AUS	51.05 E. Mischke FRG	1:31.62 L. Kelley USA	1:55.54 I. Fritze FRG
7:49.22 A. Pipes USA	3:42.22 A. Pisciotta USA	36.97 D. Lachasse USA	51.27 B. Blickfeldt USA	1:34.67 N. Phillips USA	1:56.06 T. Eicker FRG
8:00.78 P. Wilson USA	3:42.76 B. Greeham USA	37.08 D. Ressegui USA	51.82 M. Tan JPN	1:35.15 B. Burrill USA	1:56.50 M. Dutton FRG
8:03.47 N. Prentice NZL	3:46.25 J. McIntyre USA	37.16 M. Tan JPN	51.89 K. Kanai JPN	1:35.15 B. Burrill USA	2:02.44 M. Cameron CAN
8:25.44 D. Monroe USA	3:46.69 R. Turcotte USA	37.16 M. Tan JPN	51.93 S. Stinson USA	1:36.45 H. Loser FRG	2:04.08 M. Lee USA
8:36.52 H. Walker AUS	3:49.58 M. Mullins USA	37.42 F. Carr USA	51.99 J. Monohan NZL	1:37.38 A. McColister USA	2:04.50 C. Kerr CAN
9:13.46 M. Hill USA	3:49.65 P. Logan NZL	38.22 C. Costello USA		1:38.29 A. Etienne USA	2:10.41 D. Woodside USA
50m Free - Women 55-59 32.60 - G. Roper - USA	50m Breast - Women 55-59 42.94 - E. Bohm - FRG	100m Free - Women 60-64 1:20.10 - D. Ressegui - USA	100m Breast - Women 60-64 1:43.73 - C. Costello - USA	200m Free - Women 65-69 3:15.59 - D. Ressegui - USA	200m Breast - Women 65-69 4:03.82 - C. Gandolpho - BRA
32.60 G. Roper USA	42.94 E. Bohm FRG	1:20.10 D. Ressegui USA	1:43.73 C. Costello USA	3:15.59 D. Ressegui USA	4:03.82 C. Gandolpho BRA
33.65 A. Shimizu JPN	42.94 E. Bohm FRG	1:22.09 D. Donnelly USA	1:48.38 C. Costello USA	3:15.59 D. Ressegui USA	4:09.75 E. Rauner FRG
33.95 G. Roper USA	45.96 J. Sansom AUS	1:23.16 L. Hepner USA	1:48.51 L. Hepner USA	3:15.91 G. Zint AUS	4:10.13 H. Messing FRG
35.70 M. Timmins USA	46.27 J. Gulyas CAN	1:23.69 O. Johnson NZL	1:49.88 S. Suzuki JPN	3:22.11 P. Down AUS	4:11.15 G. Zint USA
36.42 D. Reed USA	46.73 A. Pisciotta USA	1:23.91 F. Carr USA	1:51.11 A. Coleman USA	3:24.83 L. Kelley USA	4:16.05 I. Fritze USA
37.62 H. Palmer USA	47.06 J. Parnell CAN	1:24.15 M. Cunningham AUS	1:51.12 E. Mischke FRG	3:24.83 L. Kelley USA	4:17.85 G. Meerwald FRG
37.64 M. Inobe JPN	47.68 J. Dunlop USA	1:24.55 D. Ressegui USA	1:53.93 P. Weiss USA	3:25.15 N. Phillips USA	4:20.66 M. Dutton AUS
37.68 A. Adams USA	48.07 A. Duren FRG	1:27.69 C. Costello USA	1:54.00 J. Krauser USA	3:31.18 H. Loser FRG	4:25.74 M. Lee USA
38.14 J. Dunlop USA	48.61 M. Cornfield USA	1:28.99 D. Lachasse USA	1:55.16 S. Stinson USA	3:32.34 J. Eppley USA	4:26.60 T. Eicker FRG
38.24 P. Dotson USA	48.84 H. Mahlke FRG	1:29.83 J. Krauser USA	1:56.36 T. Mita JPN	3:32.66 C. Gandolpho BRA	4:27.40 C. Kerr CAN
38.34 R. Nawada JPN	48.96 A. Hattori JPN	1:29.88 M. Logan NZL	1:56.38 R. Marlok FRG	3:37.08 B. Burrill USA	
100m Free - Women 55-59 1:13.80 - G. Roper - USA	100m Breast - Women 55-59 1:36.32 - G. Roper - USA	200m Free - Women 60-64 2:52.75 - C. Walker - USA	200m Breast - Women 60-64 3:54.87 - C. Costello - USA	400m Free - Women 65-69 7:11.84 - J. McColister - US	50m Fly - Women 65-69 45.56 - J. Eppley - USA
1:13.80 G. Roper USA	1:36.32 G. Roper USA	2:52.75 C. Walker USA	3:54.87 C. Costello USA	7:11.84 J. McColister US	45.56 J. Eppley USA
1:15.08 A. Shimizu JPN	1:39.29 E. Bohm FRG	2:52.75 C. Walker USA	3:56.03 E. Mischke FRG	7:15.79 B. Anderson AUS	48.89 C. Kerr CAN
1:22.01 H. Evans AUS	1:40.12 J. Gulyas CAN	3:02.98 L. Hepner USA	3:57.12 C. Costello USA	7:15.79 J. Eppley USA	49.93 G. Zint USA
1:23.46 A. Adams USA	1:43.25 G. Roper USA	3:09.26 F. Carr USA	3:58.77 J. Krauser USA	7:22.62 J. Drake AUS	50.45 M. Brown USA
1:25.01 P. Dotson USA	1:44.28 J. Dunlop USA	3:10.77 J. Krauser USA	3:59.91 L. Hepner USA	7:35.14 J. Eppley USA	50.89 H. Loser FRG
1:26.64 J. Troy USA	1:45.62 E. Nestler FRG	3:12.63 D. Ressegui USA	4:01.15 B. Blickfeldt USA	7:35.14 J. Eppley USA	51.13 M. Dutton USA
1:27.82 R. Nawada JPN	1:46.71 J. Parnell CAN	3:15.04 C. Williams USA	4:05.48 A. Coleman USA	7:35.67 N. Phillips USA	53.53 C. Thiel FRG
1:28.20 H. Kern FRG	1:46.92 H. Mahlke FRG	3:15.75 M. Cunningham USA	4:08.80 J. Monohan NZL	7:36.20 B. Burrill USA	53.53 H. Hummer USA
1:29.01 H. Palmer USA	1:49.49 A. Perea FRG	3:17.91 S. Erickson USA	4:09.51 E. Eichman FRG	7:38.75 R. Simonton USA	54.19 V. Thompson USA
1:30.30 T. Bryan AUS	1:50.42 A. Hattori JPN	3:20.71 O. Johnson NZL	4:10.37 S. Stinson USA	7:40.60 J. McColister USA	54.58 M. Lee USA
1:31.31 E. Gruender USA		3:20.96 B. Montgomery USA	4:17.67 J. Howell USA	7:43.53 C. Gandolpho BRA	
200m Free - Women 55-59 2:44.47 - G. Roper - USA	200m Breast - Women 55-59 3:32.78 - G. Roper - USA	400m Free - Women 60-64 6:15.37 - C. Walker - USA	50m Fly - Women 60-64 41.94 - C. Williams - USA	800m Free - Women 65-69 14:05.13 - D. Ressegui - USA	100m Fly - Women 65-69 1:49.48 - J. Eppley - USA
2:44.47 G. Roper USA	3:32.78 G. Roper USA	6:15.37 C. Walker USA	41.94 C. Williams USA	14:05.13 D. Ressegui USA	1:49.48 J. Eppley USA
2:50.75 G. Roper US	3:33.89 A. Pisciotta CAN	6:15.37 C. Walker USA	42.69 F. Carr USA	14:05.13 D. Ressegui USA	1:54.60 C. Kerr CAN
2:51.23 A. Shimizu JP	3:37.53 J. Gulyas CAN	6:23.66 J. Krauser USA	43.35 C. Williams USA	15:33.54 L. Kelley USA	2:05.46 M. Lee USA
2:59.21 A. Adams US	3:40.08 E. Bohm FRG	6:25.88 L. Hepner USA	43.46 M. Tan JPN	15:35.98 J. Eppley USA	2:06.96 V. Thompson USA
3:04.33 D. Reed US	3:45.16 H. Mahlke FRG	6:33.84 F. Carr USA	44.40 C. Costello USA	15:40.69 M. Lee USA	2:08.36 H. Hummer USA
3:05.12 H. Evans AU	3:48.33 E. Nestler FRG	6:51.11 D. Ressegui USA	45.07 J. Krauser USA	15:41.33 R. Simonton USA	2:10.12 Z. Taft USA
3:11.15 P. Dotson US	3:54.94 I. Perea USA	6:54.03 J. Monohan NZL	45.66 M. Cunningham AUS	15:42.62 J. McColister USA	2:10.12 G. Zint USA
3:11.56 J. Troy US	3:55.45 J. Dunlop USA	7:08.67 B. Montgomery USA	47.18 J. Meryman USA	15:44.35 H. Hummer USA	2:1

200m Fly - Women 65-69 3:58.77 - J. Eppley - USA	50m Back - Women 70-74 45:73 - W. Van Ryssel - GBR	200m Ind Med - Women 70-74 4:10.91 - M. Merlino - USA	2:26.50 J. Doice 2:27.70 M. Scanton 2:35.60 D. Hopkins 2:36.71 E. Bein 2:39.30 E. Hendry 2:40.25 R. Shephard 2:40.96 H. Matsuura	US US US US US US JPI	800m Free - Women 80-84 24:20.37 - K. Pelton - USA	50m Fly - Women 85-89 1:27.77 - E. Peckham - USA
3:58.77 J. Eppley 4:39.34 M. Lee 4:45.77 H. Hummer 4:48.18 Z. Taft 4:58.13 E. Price 5:01.93 V. Thompson 5:16.99 B. Golseth 5:26.03 R. Kariker 5:27.53 M. Dutton 6:45.93 F. Bell	45.73 W. Van Ryssel 48.29 F. Vorrath 50.93 R. H-Halbsguth 53.94 M. Wicklin 56.29 J. Osborne 58.34 M. Merlino 58.38 H. Eislefeld 59.32 M. Latham 59.60 N. Rittson 59.65 M. Shigemitsu	4:11.21 Z. Lenk 4:16.37 J. Osborne 4:21.36 M. Merlino 4:25.48 M. Wentworth 4:51.92 P. Matthiesen 4:55.42 J. Durston 5:09.70 H. Roumasset 5:20.15 C. Bando 5:25.12 W. Kennedy 5:35.02 H. Buel	BRA USA USA USA USA USA USA USA USA USA	US US US US US US US US US US	24:20.37 K. Pelton	1:34.47 E. Peckham 3:52.51 M. Keller
200m Ind Med - Women 65-69 3:48.85 - C. Kerr - CAN	100m Back - Women 70-74 1:47.97 - W. Van Ryssel - GBR	400m Ind Med - Women 70-74 8:47.36 - M. Merlino - USA	5:17.26 D. Hopkins 5:23.78 R. Hedges 5:42.54 E. Bein 5:42.86 B. Etchells 5:49.94 R. Shephard 5:53.19 S. Scott 6:05.61 J. Belshe 6:07.77 E. Hendry 6:35.61 H. Matsuura	US US US US US US US US US US US	1500m Free - Women 80-84 42:56.35 - F. Watkins - USA	100m Fly - Women 85-89 3:22.83 - E. Peckham - USA
3:48.85 C. Kerr 3:54.49 H. Loser 3:57.25 D. Ressegue 3:58.75 J. Eppley 4:01.58 M. Brown 4:02.01 G. Zint 4:02.94 M. Dutton 4:04.60 E. Rauner 4:10.21 M. Lee 4:10.49 N. Phillips	1:47.97 W. Van Ryssel 1:53.59 F. Vorrath 1:55.95 M. Wicklin 2:07.04 M. Merlino 2:10.72 H. Eislefeld 2:14.69 P. Matthiesen 2:15.77 I. Browne 2:17.86 A. Reile 2:17.94 H. Roumasset 2:19.45 G. Kahrs	10:00.12 J. Durston 10:10.01 P. Matthiesen 10:15.56 M. Wentworth 11:54.18 H. Buel 12:32.03 R. Ridenour 12:52.78 A. Wilder 13:03.59 M. Anderson 16:39.19 B. Havercamp	USA USA USA USA USA USA USA USA USA USA USA	US US US US US US US US US US US	45:52.22 E. Mauric	3:59.67 E. Peckham 7:16.89 M. Keller
200m Ind Med - Women 65-69 8:31.05 - M. Lee - USA	200m Back - Women 70-74 3:59.50 - W. Van Ryssel - GBR	50m Free - Women 75-79 41.88 - U. Wada - JPN	58.08 M. Butzbach 1:00.86 U. Wada 1:01.03 M. Wright 1:08.70 G. Sawatzki 1:10.78 M. Gottschalk 1:10.91 H. Lochter 1:12.48 E. Mattila 1:13.72 E. Goldman 1:16.48 E. John 1:20.45 B. Jones	FRI JPI AU FR FR FR US US US US US	50m Breast - Women 75-79 58.08 - M. Butzbach - FRG	200m Fly - Women 85-89 1:30.81 M. Keller - USA
8:39.97 J. Eppley 8:48.12 M. Lee 8:56.47 R. Simonton 8:56.90 G. Zint 9:23.73 Z. Taft 9:52.56 B. Golseth 11:05.53 R. Kariker 11:50.32 R. Erwin 14:01.00 E. Stevenin 14:04.27 R. Steward	3:59.50 W. Van Ryssel 4:06.09 M. Wicklin 4:43.23 M. Merlino 4:44.56 I. Browne 4:47.41 P. Matthiesen 4:50.09 L. Johnson 5:01.10 M. Wentworth 5:01.69 G. Kahrs 5:01.70 M. Latham 5:01.92 H. Roumasset	41.88 U. Wada 43.69 M. Wright 48.25 J. Doice 50.25 V. Cherriman 53.65 E. Hendry 55.09 R. Hedges 55.70 B. Etchells 55.81 H. Lochter 58.42 E. Sargent 59.46 E. Tait	JPN AUS USA GBR USA USA USA USA AUS AUS USA	US US US US US US US US US US US	58.08 M. Butzbach 2:36.46 E. Mattila 2:37.20 M. Gottschalk 2:45.88 E. Goldman 2:50.38 E. John 3:08.13 B. Wayne 3:19.37 B. Jones 3:31.66 D. Hopkins 3:41.47 S. Okker 3:45.54 R. Hedges	200m Free - Women 85-89 6:13.73 - E. Peckham - USA
50m Free - Women 70-74 39.29 - D. Musselman - USA	50m Breast - Women 70-74 53.23 - F. Vorrath - AUS	100m Free - Women 75-79 1:39.28 - U. Wada - JPN	2:07.86 M. Butzbach 2:36.46 E. Mattila 2:37.20 M. Gottschalk 2:45.88 E. Goldman 2:50.38 E. John 3:08.13 B. Wayne 3:19.37 B. Jones 3:31.66 D. Hopkins 3:41.47 S. Okker 3:45.54 R. Hedges	FRG USA USA USA USA USA USA USA USA USA USA	400m Free - Women 75-79 7:26.79 - V. Cherriman - GBR	200m Free - Women 85-89 6:13.73 - E. Peckham - USA
39.87 F. Vorrath 41.80 R. H-Halbsguth 42.95 J. Osborne 43.24 N. Clark 44.27 M. Merlino 44.57 L. Johnson 44.60 W. Van Ryssel 46.64 M. Shigemitsu 47.00 D. Nicol 48.27 G. Harnisch	53.23 F. Vorrath 57.97 J. Osborne 1:00.28 A. Reile 1:00.30 H. Eislefeld 1:00.63 G. Harnisch 1:00.71 M. Merlino 1:01.11 L. Nachtigall 1:01.23 L. Lorenz 1:01.74 E. Pauli 1:02.38 M. Wentworth	1:39.28 U. Wada 2:00.76 V. Cherriman 2:01.11 J. Doice 2:03.56 E. Tait 2:05.04 E. Hendry 2:07.41 R. Switzer 2:08.85 B. Etchells 2:11.47 D. Hopkins 2:17.70 E. Goldman 2:18.58 R. Hedges	JPN GBR USA USA USA USA USA USA USA USA USA	US US US US US US US US US US US	4:36.72 M. Butzbach 5:20.99 E. Mattila 6:30.50 E. John 7:13.84 D. Hopkins 7:25.29 S. Okker 7:44.49 E. Somers 8:32.07 H. Bressie	200m Free - Women 85-89 6:13.73 - E. Peckham - USA
100m Free - Women 70-74 1:31.45 - F. Vorrath - AUS	100m Breast - Women 70-74 2:03.07 - F. Vorrath - AUS	200m Free - Women 75-79 7:26.79 - V. Cherriman - GBR	4:36.72 M. Butzbach 5:20.99 E. Mattila 6:30.50 E. John 7:13.84 D. Hopkins 7:25.29 S. Okker 7:44.49 E. Somers 8:32.07 H. Bressie	FRG USA USA USA USA USA USA USA	50m Fly - Women 75-79 1:05.26 - V. Cherriman - GBR	50m Free - Women 85-89 1:06.49 - E. Peckham - USA
1:31.45 F. Vorrath 1:38.50 J. Osborne 1:43.70 R. H-Halbsguth 1:44.49 N. Clark 1:45.34 M. Merlino 1:48.99 I. Browne 1:50.66 G. Schubert 1:51.40 M. Shigemitsu 1:54.22 D. Nicol 1:54.25 B. Barrie	2:03.07 F. Vorrath 2:04.64 E. Pauli 2:06.09 G. Schubert 2:12.45 M. Merlino 2:12.48 J. Osborne 2:13.10 H. Eislefeld 2:13.57 S. Helgren 2:13.96 G. Harnisch 2:17.56 A. Reile 2:20.18 M. Wentworth	7:26.79 V. Cherriman 9:39.08 R. Switzer 9:45.23 R. Shephard 10:02.96 D. Hopkins 10:04.19 C. Ballard 10:42.20 M. Wright 10:47.81 E. Goldman 10:58.63 E. Hendry 11:44.49 E. Somers 13:07.26 A. Takada	GBR USA USA USA USA USA USA USA USA USA USA	US US US US US US US US US US US	1:10.97 E. Mattila 1:23.92 E. Goldman 1:24.85 D. Hopkins 2:14.20 S. Scott 2:25.23 H. Bressie	1500m Free - Women 85-89 57:03.68 M. Keller - USA
200m Free - Women 70-74 3:33.62 - F. Vorrath - AUS	200m Breast - Women 70-74 4:33.32 - G. Schubert - FRG	400m Free - Women 75-79 7:26.79 - V. Cherriman - GBR	4:36.72 M. Butzbach 5:20.99 E. Mattila 6:30.50 E. John 7:13.84 D. Hopkins 7:25.29 S. Okker 7:44.49 E. Somers 8:32.07 H. Bressie	FRG USA USA USA USA USA USA USA	200m Fly - Women 75-79 5:50.53 - E. Mattila - USA	800m Free - Women 85-89 29:14.16 M. Keller - USA
3:33.62 F. Vorrath 3:40.55 J. Osborne 3:50.24 N. Clark 3:58.62 L. Johnson 3:58.80 M. Wicklin 3:59.76 M. Merlino 4:01.57 W. Van Ryssel 4:03.30 G. Schubert 4:06.60 N. Gamenara 4:10.49 I. Browne	4:33.32 G. Schubert 4:35.47 E. Pauli 4:35.56 M. Merlino 4:35.76 F. Vorrath 4:46.53 A. Reile 4:52.81 H. Eislefeld 5:07.96 M. Wentworth 5:16.64 P. Matthiesen 5:33.46 H. Buel 5:39.00 H. Roumasset	7:26.79 V. Cherriman 9:39.08 R. Switzer 9:45.23 R. Shephard 10:02.96 D. Hopkins 10:04.19 C. Ballard 10:42.20 M. Wright 10:47.81 E. Goldman 10:58.63 E. Hendry 11:44.49 E. Somers 13:07.26 A. Takada	GBR USA USA USA USA USA USA USA USA USA USA	US US US US US US US US US US US	1:23.92 E. Goldman 1:24.85 D. Hopkins 2:14.20 S. Scott 2:25.23 H. Bressie	1500m Free - Women 85-89 57:03.68 M. Keller - USA
7:44.80 J. Osborne 8:00.39 Z. Lenk 8:10.47 I. Browne 8:19.48 L. Johnson 8:21.53 M. Merlino 8:31.60 N. Clark 8:46.40 J. Durston 9:09.72 G. Kahrs 9:10.18 N. Gamenara 9:15.16 M. Kelleher	53.00 Z. Lenk 55.54 J. Osborne 57.14 W. Van Ryssel 1:01.43 M. Merlino 1:05.50 W. Kennedy 1:09.37 P. Matthiesen 1:11.25 D. Nicol 1:14.20 C. Bando 1:15.37 A. Wilder	18:05.46 V. Cherriman 19:13.63 J. Doice 20:46.39 D. Hopkins 21:40.96 R. Shephard 22:32.03 E. John 23:16.67 E. Hendry 23:22.15 E. Somers 27:20.59 A. Takada 28:14.43 H. Bressie	GBR USA USA USA USA USA USA USA USA USA	US US US US US US US US US US	5:50.53 E. Mattila 6:39.52 D. Hopkins 8:56.92 S. Scott 10:14.30 E. Somers 10:45.60 H. Bressie	200m Free - Women 85-89 29:14.16 M. Keller - USA
800m Free - Women 70-74 16:24.33 - Z. Lenk - BRA	50m Fly - Women 70-74 51.25 - Z. Lenk - BRA	1500m Free - Women 75-79 33:25.91 - V. Cherriman - GBR	4:38.18 V. Cherriman 5:07.08 E. Mattila 5:55.78 D. Hopkins 7:06.76 S. Scott 8:33.95 H. Bressie	GBR USA USA USA USA	200m Fly - Women 75-79 5:50.53 - E. Mattila - USA	100m Free - Men 25-29 51.25 - J. Montgomery - USA
16:24.33 Z. Lenk 17:30.64 M. Merlino 17:44.44 J. Durstad 18:14.55 D. Jones 18:47.37 M. Kelleher 19:32.22 R. Wunderlich 19:35.72 N. Gamenara 20:30.00 M. Wentworth 20:39.94 L. Holm 21:18.47 R. Ridenour	2:05.84 Z. Lenk 2:18.01 M. Merlino 2:23.31 J. Durston 2:27.28 P. Matthiesen 2:29.41 H. Roumasset 2:35.81 M. Wentworth 2:59.75 M. Anderson 4:36.53 P. Hall	35:25.91 V. Cherriman 40:15.78 C. Ballard 42:11.00 E. Hendry 56:42.49 H. Bressie	GBR USA USA USA USA USA USA USA	US US US US US US US US	1:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	200m Free - Men 25-29 51.25 - J. Montgomery - USA
1500m Free - Women 70-74 30:12.74 - Z. Lenk - BRA	200m Fly - Women 70-74 4:37.05 - M. Merlino - USA	400m Ind Med - Women 75-79 10:30.78 - E. Mattila - USA	4:38.18 V. Cherriman 5:07.08 E. Mattila 5:55.78 D. Hopkins 7:06.76 S. Scott 8:33.95 H. Bressie	GBR USA USA USA USA	50m Free - Women 80-84 1:00.77 - M. McKechnie - USA	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:11.99 M. Merlino 33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
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33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
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33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
33:44.58 I. Browne 33:45.00 J. Durston 35:32.19 D. Jones 36:18.90 D. Nicol 37:40.67 M. Kelleher 37:54.63 L. Holm 38:31.54 P. Matthiesen 39:36.59 H. Curtis 40:18.16 M. Latham	4:49.63 M. Merlino 5:01.85 J. Durston 5:19.83 M. Wentworth 5:21.18 P. Matthiesen 6:05.59 H. Buel 6:37.18 A. Wilder 6:53.41 M. Anderson	10:30.78 E. Mattila 12:27.46 D. Hopkins 15:21.74 S. Scott 16:09.47 E. Somers 17:30.72 H. Bressie	USA USA USA USA USA USA USA USA	US US US US US US US US	1:33.54 I. Brubacher	100m Free - Men 25-29 51.25 - J. Montgomery - USA
3						

100m Back - Men 25-29 59.00 - R. Arantes - BRA	400m Ind. Med - Men 25-29 4:51.18 - K. Drake - USA	200m Back - Men 30-34 2:12.36 - T. Wolf - USA	50m Free - Men 35-39 25.31 - A. McPherson - USA	50m Breast - Men 35-39 32.01 - J. Keyser - USA	100m Free - Men 40-44 56.36 T. Garton - USA
59.00 R. Arantes BRA 1:02.36 M. Heinrich USA 1:03.10 R. Dill-Macky AUS 1:04.78 G. Patching USA 1:05.49 W. Younger USA 1:05.67 K. Westphal USA 1:05.70 R. Zupay FRG 1:05.78 C. Groen USA 1:05.92 J. Tudor USA 1:05.05 Dal Nissu ITA	4:51.18 K. Drake USA 5:02.38 R. Copeland USA 5:07.76 S. Johnson USA 5:08.46 G. Howland USA 5:12.75 D. Rucker USA 5:20.83 K. O'Brien USA 5:24.68 B. Gawboy USA 5:25.32 D. Goerke USA 5:25.76 F. Wasko USA 5:28.16 R. Forrestel USA	2:19.42 D. Ozier USA 2:21.08 F. Ferroggiaro USA 2:23.30 D. Marlin USA 2:23.39 W. Claffin USA 2:26.87 D. Harrigan USA 2:28.52 B. Gallagher USA 2:28.95 S. Breiter USA 2:29.03 T. Huesken USA 2:31.41 B. Mallette USA 2:31.60 R. Hamburg AUS	25.62 W. Barthold USA 25.63 D. Farmer USA 25.98 J. Foote USA 26.04 D. Koening USA 26.05 G. Clark USA 26.20 S. Takeuchi JPN 26.25 K. Ziskin USA 26.44 D. Becker USA 26.52 H. Takahashi JPN 26.70 T. Meehan USA	32.74 K. Ziskin USA 33.21 C. Kolar USA 33.21 M. Gunther FRG 33.84 M. Schild FRG 34.05 M. Zehr FRG 34.09 A. Stark USA 34.15 W. Gatzke USA 34.20 G. Vonhausen FRG 34.37 R. Murray USA 34.42 Taipei	56.50 T. Garton USA 57.90 S. Clark USA 58.45 D. Gray USA 58.89 D. Lyons USA 59.19 C. Dennis USA 1:00.00 I. Eriksson SWE 1:00.08 R. Woodrow USA 1:00.57 K. Von Tagen USA 1:01.03 M. Garibaldi USA 1:01.19 T. Schwartz USA
200m Back - Men 25-29 2:12.99 - T. Wolf - USA	50m Free - Men 30-34 24.34 - J. Montgomery - USA	50m Breast - Men 30-34 30.88 - C. Miltenberger - USA	100m Free - Men 35-39 55.38 - F. Schlicher - USA	100m Breast - Men 35-39 1:11.43 - C. Kolar - USA	200m Free - Men 40-44 2:06.55 - T. Garton - USA
2:13.56 R. Arantes BRA 2:13.69 R. Dill-Macky AUS 2:14.25 M. Heinrich USA 2:22.34 R. Fletcher AUS 2:22.44 G. Johnson USA 2:23.19 S. Shake USA 2:24.16 F. Leadbetter USA 2:24.94 D. Rucker USA 2:26.03 D. Doyley CAN 2:26.59 O. Diazgonzalez MEX	24.34 J. Montgomery USA 24.44 D. Ozier USA 24.95 R. Crowder USA 24.97 T. Hedrick USA 25.00 F. Hubbell USA 25.18 D. Hannula USA 25.18 C. Kerring NZL 25.18 D. Hogue USA 25.23 K. Meier FRG 25.50 D. Wilnes USA	31.01 C. Miltenberger USA 31.25 R. Clark USA 31.65 J. Bruhn FRG 32.04 M. Itoh JPN 32.49 F. Hubbell USA 32.59 L. Dowler USA 32.72 A. Hellman FRG 33.09 H. Ronkin USA 33.17 U. Kramer FRG 33.17 GC Mauro ITA	57.46 R. Bober USA 57.57 D. Audley USA 57.62 W. Barthold USA 58.35 G. Clark USA 58.75 S. Takeuchi JPN 58.75 W. Tingley USA 58.90 R. Momen USA 58.99 S. Boster USA 58.99 D. Farmer USA 59.07 J. Foote USA	1:12.08 C. Kolar USA 1:12.09 K. Ziskin USA 1:15.40 M. Zehr USA 1:15.50 H. Danczeglocke FRG 1:15.70 A. Stark USA 1:16.25 C. Wetmore USA 1:16.34 M. Jester USA 1:16.38 T. Fisher USA 1:17.25 M. Ohata BR	2:06.79 T. Garton USA 2:07.14 D. Gray USA 2:12.93 D. Lyons USA 2:13.57 M. Garibaldi USA 2:15.04 S. Clark USA 2:15.84 J. Crane USA 2:16.99 R. Boyd USA 2:17.16 R. Woodrow USA 2:17.50 J. Geoghegan USA 2:17.58 T. Haraszti USA
50m Breast - Men 25-29 29.88 - R. Hoffstetter - USA	100m Free - Men 30-34 52.32 - J. Montgomery - USA	100m Breast - Men 30-34 1:09.30 - C. Jastremski - USA	200m Free - Men 35-39 2:00.45 - F. Schlicher - USA	200m Breast - Men 35-39 2:40.18 - K. Ziskin - USA	400m Free - Men 40-44 4:32.62 - D. Gray - USA
29.70 G. Christiansen SWE 29.88 R. Hoffstetter USA 31.74 R. Crawford USA 32.05 Y. Kagami JPN 32.11 M. Stowley USA 32.22 G. Mayorca ARI 32.32 G. Dave JPN 32.33 B. Royal AUS 32.41 H. Schmidt FRG 32.66 A. Lydick USA	52.32 J. Montgomery USA 55.10 J. Griffith USA 55.74 T. Hedrick USA 56.10 F. Hubbell USA 56.21 D. Hogue USA 56.32 A. Hunter USA 56.65 P. Brunson USA 56.66 S. Mac Donald USA 56.81 S. Breiter USA 56.83 K. Meier FRG	1:09.44 R. Clark USA 1:09.80 C. Miltenberger USA 1:11.29 J. Bruhn FRG 1:23.48 L. Dowler USA 1:12.65 M. Itoh JPN 1:13.43 H. Bloch FRG 1:13.99 H. Ronkin USA 1:14.17 G. Harrison USA 1:14.40 W. Bower USA 1:14.51 A. Hellman FRG	2:05.11 R. Williams USA 2:06.73 D. Audley USA 2:07.99 B. Reidenbaugh USA 2:09.45 R. Momen USA 2:09.84 R. Spieker USA 2:10.86 K. Bell USA 2:10.88 P. O'Keefe USA 2:11.21 F. Warner USA 2:11.43 T. Bryan USA 2:11.48 S. Johnson USA	2:40.18 K. Ziskin USA 2:42.77 H. Danczeglocke FRG 2:45.61 M. Zehr USA 2:45.64 S. Holttoway USA 2:47.01 M. Morrow USA 2:49.15 R. Momen USA 2:49.93 C. Wetmore USA 2:50.90 M. Jester USA 2:51.21 I. Johnstone NZL 2:51.98 D. Levinson USA	4:32.62 D. Gray USA 4:38.11 T. Garton USA 4:43.89 H. Winn USA 4:44.57 E. Gray USA 4:47.48 J. Crane USA 4:49.45 M. Garibaldi USA 4:51.70 D. Lyons USA 4:53.08 I. Butterworth NZL 4:56.93 R. Boyd USA 4:58.69 T. Haraszti USA
100m Breast - Men 25-29 1:06.61 - R. Hoffstetter - USA	200m Free - Men 30-34 1:55.48 - J. Montgomery - USA	200m Breast - Men 30-34 2:33.51 - C. Jastremski - USA	400m Free - Men 35-39 4:21.98 - F. Schlicher - USA	50m Fly - Men 35-39 27.00 - J. Foote - USA	800m Free - Men 40-44 9:48.41 - E. Gray - USA
1:06.61 R. Hoffstetter USA 1:07.2 G. Christiansen SWE 1:10.00 R. Crawford USA 1:10.44 M. Stowley USA 1:10.86 Y. Kagami JPN 1:12.08 G. Mayorca ARI 1:13.34 H. Schmidt FRG 1:13.36 B. Royal AUS 1:13.93 G. Dave JPN 1:13.97 B. Doyley USA	1:55.48 J. Montgomery USA 2:03.56 J. Griffith USA 2:04.18 T. Hedrick USA 2:05.15 S. Breiter USA 2:06.00 L. Wood USA 2:06.16 P. Brunson USA 2:06.41 T. Kanamine USA 2:07.66 S. Mac Donald USA 2:07.80 D. Hogue USA 2:08.10 T. Rumsey USA	2:36.07 R. Clark USA 2:36.33 G. Harrison USA 2:40.98 R. Enright USA 2:41.42 L. Dowler USA 2:43.73 M. Itoh JPN 2:44.22 B. Bleakman USA 2:45.03 H. Bloch FRG 2:45.86 H. Ronkin USA 2:46.73 D. Johnson USA 2:46.89 C. Miltenberger USA	4:25.37 R. Williams USA 4:31.49 B. Reidenbaugh USA 4:32.94 R. Momen USA 4:33.49 D. Audley USA 4:36.45 T. Bryan USA 4:36.48 R. Spieker USA 4:36.86 S. Johnson USA 4:37.38 K. Bell USA 4:39.54 J. Coracevich USA 4:41.70 J. Gonzalez USA	27.00 J. Foote USA 27.68 R. Kurahara JPN 28.02 S. Boster USA 28.35 G. Clark USA 28.52 R. Haas USA 28.69 P. Lumden USA 28.75 L. Chase USA 28.79 J. Whitley AL 28.80 D. Levinson USA 29.17 C. Hassett USA	9:48.41 E. Gray USA 9:54.90 H. Winn USA 9:58.45 M. Garibaldi USA 9:56.92 D. Lyons USA 10:13.45 I. Butterworth NZL 10:15.97 S. Galletley USA 10:23.70 T. Haraszti USA 10:27.16 K. Kelley USA 10:40.21 J. Geoghegan USA 10:52.71 S. Thrasher USA
200m Breast - Men 25-29 2:30.88 - G. Christiansen - SW	400m Free - Men 30-34 4:08.70 - J. Montgomery - USA	50m Fly - Men 30-34 25.84 - D. Ozier - USA	800m Free - Men 35-39 9:14.04 - R. Williams - USA	100m Fly - Men 35-39 58.59 - F. Schlicher - USA	1500m Free - Men 40-44 18:32.82 - P. Thompson - USA
2:30.88 G. Christiansen SWE 2:30.96 R. Hoffstetter USA 2:35.04 M. Stowley USA 2:35.73 Y. Kagami JPN 2:40.35 G. Mayorca ARI 2:41.20 D. Doyley CAN 2:43.59 H. Schmidt FRG 2:43.63 G. Sauriegel FRG 2:44.29 T. Bauer FRG 2:45.03 A. Gould AUS	4:08.70 J. Montgomery USA 4:24.94 S. Breiter USA 4:28.37 T. Rumsey USA 4:29.78 T. Kanamine USA 4:31.49 C. Yourd USA 4:32.32 S. Mac Donald USA 4:33.53 G. Phlipps USA 4:34.19 P. Brunson USA 4:34.36 F. Ferroggiaro USA 4:34.36 E. Brown USA	26.13 D. Ozier USA 26.61 D. Hogue USA 26.64 T. Hedrick USA 26.92 F. Hubbell USA 27.08 D. Fleck USA 27.26 S. Mac Donald USA 27.36 R. Hansen USA 27.57 N. Rogers AUS 27.64 R. Johnson USA 27.70 B. Mallette USA	9:14.04 R. Williams USA 9:19.80 R. Spieker USA 9:43.09 R. Momen USA 9:52.45 D. Audley USA 9:55.91 J. Osterloh USA 9:55.95 J. Covacevich AUS 9:56.90 D. Uijtenbogaart HOL 10:07.95 R. Janis USA 10:13.26 W. Tingley USA 10:13.41 S. Pyle USA	1:01.90 R. Kurahara JPN 1:02.65 S. Boster USA 1:02.73 R. Williams USA 1:03.30 D. Levinson USA 1:03.33 N. LeClercq USA 1:03.68 R. Haas USA 1:03.84 J. Covacevich AL 1:04.46 J. Foote USA 1:05.31 L. Chase USA 1:05.99 R. Gallas USA	18:36.06 D. Gray USA 19:06.99 H. Winn USA 19:21.24 I. Butterworth NZL 19:56.97 R. Boyd USA 20:02.58 R. Pomeroy USA 20:22.13 S. Thrasher USA 20:27.79 K. Kelley USA 20:56.23 P. Hengen USA 20:57.98 R. Tucker USA 21:02.76 R. Cundall USA
50m Fly - Men 25-29 25.16 - De Forrest/Bottom - US	800m Free - Men 30-34 8:46.99 - J. Montgomery - USA	100m Fly - Men 30-34 58.52 - C. Evans - USA	1500m Free - Men 35-39 17:28.84 - K. Polansky - USA	200m Ind. Med. - Men 35-39 2:20.44 - P. O'Keefe - USA	100m Back - Men 40-44 1:07.40 - C. Gantner - USA
25.69 R. Placak USA 25.81 J. Tudor USA 25.99 M. Morgan AUS 26.59 G. Howland USA 26.63 W. Younger USA 26.82 F. Wasko USA 26.91 Taipei TPE 27.19 Taipei TPE 27.35 K. Westphal USA 27.44 T. Shibasaki JPN	8:46.99 J. Montgomery USA 9:24.05 T. Kanamine USA 9:24.87 E. Brown USA 9:29.53 F. Ferroggiaro USA 9:33.41 C. Yourd USA 9:38.33 C. Stevens USA 9:41.49 S. Breiter USA 9:42.08 W. Mc Carthy USA 9:45.80 R. Blattner USA 9:49.64 M. Worden USA	59.61 J. Griffith USA 59.75 S. Mac Donald USA 59.97 T. Hedrick USA 1:00.45 F. Hubbell USA 1:01.78 T. Kanamine USA 1:02.03 D. Hogue USA 1:02.24 J. Densmore, Jr. USA 1:02.37 T. Boyd USA 1:02.66 R. Hansen USA	18:02.36 T. Bryan USA 18:28.30 J. Gonzalez USA 18:46.33 K. Bell USA 18:46.48 K. Polansky USA 18:51.19 S. Johnson USA 18:52.39 D. Audley USA 19:27.12 T. McGreight USA 19:29.65 M. Morrow CAN 19:30.35 D. Tempest USA 19:36.40 S. Pyle USA	2:20.44 P. O'Keefe USA 2:23.44 K. Bell USA 2:25.18 J. Covacevich USA 2:26.49 D. Levinson USA 2:32.56 D. Yielding USA 2:34.07 R. Gallas USA 2:35.13 B. Sorge USA 2:35.20 B. Cross USA 2:35.64 D. Huestis USA 2:38.10 G. McKeon AUS	1:07.40 C. Gantner USA 1:07.92 R. Burns USA 1:08.29 C. Gantner USA 1:08.80 G. Dillley USA 1:09.88 E. Gray USA 1:11.38 R. Welty USA 1:11.45 M. McKinlay USA 1:11.45 K. O'Hara USA 1:11.61 R. Smith USA 1:11.62 P. Heeren FRG 1:12.18 J. Beglinger USA
200m Fly - Men 25-29 2:05.25 - M. Lukasek - CZE	1500m Free - Men 30-34 17:10.80 - R. Williams - USA	200m Fly - Men 30-34 2:12.57 - R. Williams - USA	200m Ind. Med. - Men 30-34 2:16.04 - T. Wolf - USA	400m Ind. Med. - Men 35-39 4:59.66 - F. Schlicher - USA	200m Back - Men 40-44 2:30.43 - R. Burns - USA
2:15.17 K. O'Brien USA 2:20.69 C. Roth USA 2:23.67 R. Dill-Macky AUS 2:25.12 D. Estes USA 2:25.85 A. Calpito USA 2:26.44 G. Howland USA 2:27.46 D. Goerke USA 2:27.92 P. Born AUS 2:30.54 K. Hutchinson USA 2:31.87 P. Hedges USA	17:10.80 R. Williams USA 18:00.47 T. Ramsey USA 18:12.93 P. Brunson USA 18:13.06 S. Breiter USA 18:15.49 W. McCarty USA 18:46.38 G. Phlipps AUS 18:53.44 L. Wood USA 19:00.29 D. Bell USA 19:07.49 S. Prescott NZL 19:16.52 D. Gordon USA 19:21.04 D. Chambers NZL	2:16.26 T. Kanamine USA 2:17.28 J. Densmore USA 2:17.36 R. Abramowitz USA 2:22.27 C. Yourd USA 2:22.57 E. Brown USA 2:23.07 M. Saunders NZL 2:27.54 H. Moore USA 2:27.68 M. Worden USA 2:31.38 M. Dalton USA 2:31.10 L. Sevaracz AUS	2:17.75 D. Hannula USA 2:20.21 R. Clark USA 2:20.98 B. Smith USA 2:21.57 J. Griffith USA 2:22.04 T. Kanamine USA 2:22.09 B. Gallagher USA 2:22.10 S. Breiter USA 2:23.39 B. Bleakman USA 2:24.45 G. Neubert FRG 2:24.61 R. Abramowitz USA	4:59.66 F. Schlicher USA 5:12.75 M. Morrow CAN 5:20.92 B. Reidenbaugh USA 5:21.78 D. Levinson USA 5:23.37 K. Bell USA 5:27.51 B. Cross USA 5:29.54 W. Babcock USA 5:33.15 P. Brown USA 5:33.16 C. Kolar USA 5:36.90 I. Johnstone NZL 5:38.41 E. Pyle USA	2:30.43 R. Burns USA 2:30.56 C. Gantner USA 2:30.70 E. Gray USA 2:33.91 G. Dillley USA 2:39.70 M. McKinlay USA 2:40.93 R. Welty USA 2:41.57 M. Powers USA 2:41.81 P. Whitten USA 2:43.77 D. Hicks USA 2:44.23 J. Beglinger USA
200m Ind. Med. - Men 25-29 2:14.02 - M. Chatfield - USA	100m Back - Men 30-34 2:19.40 - T. Wolf - USA	400 Ind. Med. - Men 30-34 4:56.46 - T. Wolf - USA	200m Back - Men 35-39 2:17.31 - P. O'Keefe - USA	50m Free - Men 40-44 25.25 - T. Garton - USA	50m Breast - Men 40-44 32.39 - V. Luken - USA
2:16.29 J. Tudor USA 2:16.57 G. Howland USA 2:18.65 R. Crawford USA 2:20.11 S. Meares AUS 2:21.52 R. Fletcher USA 2:22.63 R. Mattidi BRA 2:22.63 J. Sigworth FRG 2:23.41 R. Dill-Macky AUS 2:24.65 T. Bauer FRG 2:24.7 K. Trimbee CAN	2:19.40 T. Wolf USA 2:19.40 D. Ozier USA 2:19.40 W. Claffin USA 2:19.40 D. Harrigan USA 2:19.40 D. Marlin USA 2:19.40 F. Ferroggiaro USA 2:19.40 T. Huesken USA 2:19.40 B. Mallette USA 2:19.40 S. Breiter USA	4:56.46 T. Wolf USA 5:02.10 S. Breiter USA 5:06.76 T. Kanamine USA 5:09.53 R. Clark USA 5:10.74 J. Densmore USA 5:12.32 B. Bleakman USA 5:14.68 R. Abramowitz USA 5:17.87 R. Enright USA 5:18.80 D. Gordon USA 5:20.33 M. Saunders NZL 5:24.78 M. Worden USA	2:17.31 P. O'Keefe USA 2:23.22 R. Bober USA 2:23.94 W. Tingley USA 2:25.79 R. Spieker USA 2:27.66 W. Barthold USA 2:30.16 D. Tempest USA 2:31.52 F. Warner USA 2:32.17 J. Urreta MEX 2:33.57 S. Morgan USA 2:34.37 C. O'Donnell USA 2:38.45 R. Haas USA	25.29 S. Clark USA 26.55 D. Gray USA 26.59 B. Clark USA 26.70 R. Woodrow USA 26.81 K. Von Tagen USA 26.82 C. Dennis USA 26.90 G. Dillley USA 26.98 R. Smith USA 27.01 R. Pilger USA	32.39 V. Luken USA 33.10 R. Hernandez MEX 33.31 P. Henne USA 33.88 Y. Maeda JPN 34.41 T. Boak USA 34.58 D. Hofel USA 34.61 G. Nottelmann FRG 34.66 K. Matsumoto USA 34.76 T. Iwata JPN 34.85 W. Jackson USA 34.88 P. Hoffert FRG

100m Breast - Men 40-44 1:11.58 - V. Luken - USA	200m Free - Men 45-49 2:09.30 - E. Hinshaw - USA	200m Breast - Men 45-49 2:51.18 - G. Schmah - FRG	400m Free - Men 50-54 4:52.28 - B. Jones - USA	50m Fly - Men 50-54 29.97 - H. Beigel - USA	800m Free - Men 55-59 10:40.06 - G. Johnston - USA
1:13.03 R. Hernandez MEX 1:15.12 P. Henne USA 1:15.83 Y. Maeda JPN 1:17.09 G. Burke USA 1:17.46 G. Nottelmann FRG 1:17.90 T. Boak USA 1:17.99 T. Iwata JPN 1:18.47 P. Hoffert FRG 1:19.56 N. Olzman USA 1:20.50 J. Olson USA 1:20.50 Taipei TPE	2:15.49 T. Harasztl US 2:18.71 W. Page US 2:19.16 H. Southall US 2:20.23 W. Van Horn US 2:20.64 C. Milano I 2:21.41 K. Nishino J 2:21.57 M. McLachlan US 2:22.05 R. Bassi US 2:22.32 R. Lieb US 2:22.96 I. McLean G	2:51.67 G. Schmah FRG 2:52.25 W. Mulliken USA 2:54.30 M. Moloney AUS 2:58.12 E. Chao TPE 2:58.31 C. Hopkins USA 2:59.13 H. Reichelt USA 3:02.32 H. Wermelskirchen FRG 3:03.02 A. Arndt USA 3:04.47 Taipei TPE 3:04.55 H. Boknecht FRG	4:59.23 D. Hill USA 5:04.12 D. Costill USA 5:07.55 S. Kooistra USA 5:07.57 T. Boyes GBR 5:08.18 K. Canterbury USA 5:12.88 R. Ross USA 5:17.07 B. Jones USA 5:19.42 W. Robertson USA 5:22.82 D. Loeliger USA 5:24.61 G. Brunstad JPN	30.91 D. Costill USA 31.51 D. Drum USA 31.53 P. Taft USA 31.67 A. Sugiyama JPN 31.76 M. Strate FRG 32.01 D. O'Brien USA 32.44 W. Howes USA 32.55 W. Muller FRG 32.75 J. Nagasawa JPN 32.80 M. Katsuya JPN	10:40.06 G. Johnston US 10:20.33 J. Brownjohn AU 11:25.04 J. Alieva US 11:30.70 P. Buckley US 11:37.09 S. Yamamoto JF 11:39.72 R. Beach US 11:44.88 R. Klages US 11:45.38 P. Parham US 11:49.56 F. Sprenger US 12:00.15 K. McKay GE
200m Breast - Men 40-44 2:43.01 - V. Luken - USA	400m Free - Men 45-49 4:37.15 - E. Hinshaw - USA	50m Fly - Men 45-49 27.78 - R. Takamine - JPN	800m Free - Men 50-54 10:17.40 - B. Jones - USA	100m Fly - Men 50-54 1:07.13 - B. Yorzyk - USA	1500m Free - Men 55-59 21:28.64 - W. Wilson - USA
2:50.32 P. Henne USA 2:51.20 R. Pomeroy USA 2:51.97 R. Hernandez MEX 2:52.39 G. Burke USA 2:52.89 G. Nottelmann FRG 2:52.98 N. Olzman USA 2:54.32 P. Hoffert FRG 2:56.32 T. Boak USA 2:56.61 H. Bremer FRG 2:56.61 M. Powers USA	4:54.24 C. Milano I 4:57.08 T. Harasztl U 5:00.39 W. Page U 5:00.40 L. Larson U 5:03.51 D. Harrison U 5:03.55 H. Southall U 5:04.23 R. Stokes G 5:04.49 K. Nishino J 5:05.12 J. Olson A 5:06.21 W. Van Horn U	27.78 R. Takamine JPN 28.95 A. Takakura JPN 29.70 R. Bassi US 29.76 B. Petersen US 29.81 R. Proebsting US 29.85 S. Kuwahara JPN 30.08 D. Gillanders USA 30.30 R. Lieb US 30.99 R. Nicosia ITA 31.04 G. King AU	10:22.27 K. Canterbury USA 10:33.19 D. Hill USA 10:55.96 R. Ross USA 11:19.55 W. Robertson USA 11:27.62 B. Beishe USA 11:41.10 S. Kelly USA 11:42.61 C. LeBourgeois ITA 11:56.2 R. Smith USA 12:17.70 S. Inamoto JPN	1:10.24 D. Costill USA 1:14.74 M. Strate FRG 1:15.29 D. O'Brien USA 1:15.46 K. Canterbury USA 1:16.31 W. Muller FRG 1:17.37 D. Brown USA 1:17.54 B. Jones USA 1:18.38 G. Hole FRG 1:18.41 M. Sanguly USA 1:19.47 K. Ebner FRG	20:45.54 G. Johnston U 22:02.31 P. Buckley U 22:09.27 R. Franks U 22:19.56 R. Beach U 22:23.26 W. Wilson U 22:59.91 F. Sprenger U 23:16.60 B. Johnson U 23:47.06 T. Kueny U 23:54.94 K. Kimball U 24:15.93 E. Fierro U
50m Fly - Men 40-44 27.56 - K. Ludwig - USA	10:22.33 T. Harasztl USA 10:34.16 D. Gallagher USA 10:37.50 L. Larson USA 10:37.92 D. Harrison USA 10:48.38 K. Nishino JPN 10:49.06 H. Southall USA 10:49.33 I. McLean GBR 10:57.84 W. Page USA 10:58.23 W. Van Horn USA 11:05.02 M. Goldstein USA	1:07.56 B. Petersen US 1:07.91 A. Takakura JPN 1:09.24 D. Gillanders US 1:09.65 R. Proebsting US 1:11.16 W. Page US 1:11.20 G. Schopke FRG 1:11.55 G. Schmah FRI 1:11.70 M. Goldstein US 1:12.60 R. Pyykko US 1:13.24 G. King AU	19:28.41 - B. Jones - USA	200m Fly - Men 50-54 2:33.79 - B. Yorzyk - USA	50m Back - Men 55-59 33.44 R. Barry AUS 35.46 B. Johnson USA 35.76 R. Bennett USA 36.40 F. Elliott USA 36.79 R. Tannehill USA 37.21 J. Seegers USA 37.29 R. Wolf USA 37.50 K. Klaustermeier FRG 37.90 A. Andersson SWE 38.02 R. Franks USA
27.76 S. Clark USA 28.48 C. Gantner USA 28.79 D. Lyons USA 28.82 D. Thompson USA 28.93 G. Langendoen USA 29.38 R. Hernandez MEX 29.40 W. Muter USA 29.43 R. Woodrow USA 29.4 I. Eriksson SWE 29.54 K. Von Tagen USA	1500m Free - Men 45-49 18:34.73 - E. Hinshaw - USA	100m Fly - Men 45-49 1:06.65 - B. Yorzyk - USA	1500m Free - Men 50-54 19:28.41 - B. Jones - USA	200m Ind. Med. - Men 50-54 2:39.51 - B. Jones - USA	100m Back - Men 55-59 1:15.25 - R. Barry - AUS
1:04.31 T. Garton USA 1:06.00 S. Clark USA 1:06.05 G. Langendoen USA 1:06.16 D. Lyons USA 1:06.24 R. Hernandez MEX 1:06.56 R. Pitman USA 1:06.68 P. Hebert USA 1:08.39 W. Muter USA 1:08.52 J. Altenhofer FRG 1:08.68 W. Konig FRG	20:08.77 T. Harasztl USA 20:41.69 W. Mulliken USA 20:55.41 W. Van Horn USA 20:56.88 P. Schlup USA 21:03.59 H. Southall USA 21:13.30 M. Calwell USA 21:13.67 W. Stewart USA 21:13.94 H. Hamilton USA 21:15.64 B. Young NZL 21:57.86 F. Banaag USA	2:39.19 W. Page US 2:45.34 G. Schmah FRI 2:45.43 W. Mulliken US 2:52.90 B. Petersen US 2:54.27 R. Proebsting US 2:55.56 D. Campion AU 2:55.86 G. King AU 2:56.83 R. Stokes GBR 2:57.98 M. Goldstein US 3:01.80 R. Mohr US	20:19.82 K. Canterbury USA 20:52.44 S. Kooistra USA 20:58.46 B. Jones USA 21:21.4 G. Brunstad USA 21:32.26 B. Beishe USA 22:01.39 D. O'Brien USA 22:17.65 C. LeBourgeois USA 22:21.06 A. Welch USA 22:54.06 A. Rogic USA 22:57.52 W. Sanford USA	32.41 J. Beattie USA 33.01 D. Brown USA 33.80 M. Hatta JPN 34.22 B. Jones USA 34.28 C. Gentry USA 34.59 J. Bohan USA 34.86 K. Hase JPN 35.02 M. Nakagawa JPN 35.05 P. Bent AUS 35.21 B. Claydon USA	1:15.25 R. Barry AUS 1:18.16 R. Bennett USA 1:19.94 B. Johnson USA 1:20.65 H. Beigel USA 1:21.39 R. Franks USA 1:22.57 J. Seegers USA 1:22.65 F. Elliott USA 1:23.45 N. Palmer USA 1:24.94 R. Tannehill USA 1:25.04 T. Ashizawa JPN
200m Fly - Men 40-44 1:02.05 - L. Larson - USA	50m Back - Men 45-49 30.90 - E. Hinshaw - USA	200 Ind. Med. - Men 45-49 2:32.06 - E. Hinshaw - USA	50m Back - Men 50-54 32.41 - J. Beattie - USA	400m Ind. Med. - Men 50-54 1:11.27 - D. Brown - USA	200m Back - Men 55-59 2:44.74 - R. Barry - AUS
1:04.31 T. Garton USA 1:06.00 S. Clark USA 1:06.05 G. Langendoen USA 1:06.16 D. Lyons USA 1:06.24 R. Hernandez MEX 1:06.56 R. Pitman USA 1:06.68 P. Hebert USA 1:08.39 W. Muter USA 1:08.52 J. Altenhofer FRG 1:08.68 W. Konig FRG	30.99 P. Nicosia ITA 32.46 K. Donoghue CAN 32.51 R. Bassi USA 33.74 R. Johannes FRG 33.77 R. Kremer FRG 33.7 R. Romell SWE 34.11 W. Earley USA 34.36 D. Gillanders USA 34.79 L. Johnson USA 34.89 D. McGinley USA	2:35.04 T. Harasztl US 2:40.13 W. Page US 2:40.88 M. McLachlan US 2:41.35 A. Hewelcke FRG 2:41.50 W. Mulliken US 2:44.89 G. King AU 2:45.54 R. Kremer FRG 2:46.56 D. Gallagher US 2:48.22 J. Olson AU 2:48.38 C. Hopkins US	32.41 J. Beattie USA 33.01 D. Brown USA 33.80 M. Hatta JPN 34.22 B. Jones USA 34.28 C. Gentry USA 34.59 J. Bohan USA 34.86 K. Hase JPN 35.02 M. Nakagawa JPN 35.05 P. Bent AUS 35.21 B. Claydon USA	5:22.02 D. Brown US 5:13.62 J. Beattie US 5:17.69 M. Hatta JPN 5:17.89 B. Jones US 5:18.2 H. Andersson SWE 5:18.58 B. Barry AU 5:19.48 J. Goode AU 5:19.54 J. Bohan US 5:20.43 B. Layson US 5:21.32 D. Sailer FRG	5:52.22 K. Canterbury USA 5:58.20 D. Brown USA 5:58.20 B. Jones USA 6:11.76 D. O'Brien USA 6:15.65 G. Brunstad USA 6:19.26 J. Beattie USA 6:23.20 F. Jesus USA 6:31.75 B. Beishe USA 6:36.35 S. Kooistra USA 6:36.99 J. Johnson USA
200m Ind. Med. - Men 40-44 2:23.20 - T. Garton - USA	100m Back - Men 45-49 1:10.12 - F. McKinney - USA	400m Ind. Med. - Men 45-49 5:27.32 - E. Hinshaw - USA	200m Back - Men 50-54 2:35.44 - B. Jones - USA	50m Free - Men 55-59 27.43 - R. Heritier - USA	50m Breast - Men 55-59 34.51 - J. Korteheuer - USA
2:24.62 T. Garton USA 2:33.96 R. Boyd USA 2:34.61 R. Burns USA 2:36.67 A. D'Oppido ITA 2:36.79 H. Winn USA 2:36.97 J. Beglinger USA 2:37.34 C. Dennis USA 2:37.63 J. Calvert USA 2:37.82 T. Harasztl USA 2:37.92 W. Muter USA	1:10.12 L. Larson USA 1:12.80 R. Bassi USA 1:13.08 T. Harasztl USA 1:13.22 K. Donoghue CAN 1:14.51 R. Johannes FRG 1:15.14 R. Kremer FRG 1:15.49 A. Hewelcke FRG 1:16.99 T. Macedo USA 1:17.7 G. Schopke FRG 1:18.37 R. Norris USA	5:48.75 W. Page USA 5:52.75 D. Gallagher USA 6:08.05 C. Hopkins USA 6:09.91 B. Young NZL 6:15.99 B. Wisckol USA 6:23.58 R. Proebsting USA 6:24.56 A. Smith FRG 6:28.95 B. Fasbender USA 6:31.72 A. Arndt USA 6:40.01 R. Tesch USA	2:37.14 D. Brown US 2:44.86 J. Beattie US 2:45.20 B. Barry AU 2:55.89 B. Clayson USA 2:56.50 L. Anderson NZI 2:58.86 R. Hanley US 2:58.93 D. Loeliger AU 3:02.66 M. Hatta JPN 3:02.69 J. Goode US 3:06.90 L. Skramstad US	28.15 J. Brownjohn AUS 28.86 H. Beigel USA 28.91 J. Korteheuer USA 29.06 B. Johnson USA 29.24 R. Heritier USA 29.50 F. Egami JPN 29.59 P. Chapman USA 29.88 J. Pitts JPN 30.02 W. Irwin USA 30.12 R. Bennett USA	34.51 J. Korteheuer USA 37.17 J. Service CAN 37.63 W. Becker FRG 37.77 F. Henke FRG 37.70 J. Lyell SWE 38.70 J. Rosencrantz FRG 38.67 H. Kosbab FRG 38.68 B. Graja ITA 39.25 J. Davies FRG 39.27 M. Bickel AUS
400m Ind. Med. - Men 40-44 5:08.30 - T. Garton - USA	50m Breast - Men 45-49 33.10 - Y. Osaki - JPN	100m Free - Men 50-54 59.25 - D. Hill - USA	100m Breast - Men 50-54 1:15.60 - M. Sanguly - USA	200m Free - Men 55-59 2:24.75 - R. Barry - AUS	200m Breast - Men 55-59 3:04.14 - J. Korteheuer - USA
5:31.80 T. Garton USA 5:34.87 R. Boyd USA 5:37.52 D. Gray USA 5:38.39 T. Harasztl USA 5:39.84 M. Powers USA 5:39.98 R. Burns USA 5:40.87 H. Winn USA 5:42.96 J. Geoghegan USA 5:50.90 S. Thrasher USA 5:51.18 J. McCreary USA	2:44.52 K. Donoghue CAN 2:45.32 R. Bassi USA 2:47.62 R. Johannes FRG 2:48.13 D. Caminsius AUS 2:51.13 R. Norris USA 2:51.89 A. Smith USA 2:53.59 M. Moloney AUS 2:55.84 Y. Funahashi JPN 2:56.13 J. Olson AUS 2:58.64 B. Wisckol USA	26.87 D. Hill USA 27.38 J. McDiarmid AUS 27.75 P. Gay USA 27.76 T. Boyes GBR 28.01 D. Costill USA 28.67 P. Taft USA 28.76 S. Kooistra USA 28.77 H. Suzuki JPN 28.92 E. Crovetto ITA 29.01 R. Bailie USA	33.38 H. Kotegawa JP 34.42 A. Sugiyama JP 35.20 M. Sanguly USA 35.91 R. Schonhaar FR 36.09 W. Muller USA 36.11 K. Hisamatsu JPN 36.38 D. Daboli US 36.69 W. Ewald FR 36.76 P. Spindler USA 37.05 A. Buchholz FR	1:03.83 R. Barry AUS 1:04.23 S. Yamamoto JPN 1:04.64 J. Brownjohn USA 1:05.74 H. Beigel USA 1:06.49 G. Johnston USA 1:06.55 R. Heritier USA 1:06.55 R. Egami JPN 1:06.82 P. Buckley USA 1:06.98 J. Korteheuer USA 1:07.10 P. Chapman USA	3:04.14 J. Korteheuer USA 3:11.22 J. Service CAN 3:16.20 B. Graja ITA 3:18.04 J. Rosencrantz FRG 3:18.82 J. Davies FRG 3:20.02 T. Haartz USA 3:21.29 M. Bickel FRG 3:22.11 D. VanRosen USA 3:22.76 F. Henke FRG
100m Free - Men 45-49 58.76 - J. Farrell - USA	100m Breast - Men 45-49 1:15.47 - M. Sanguly - USA	200m Free - Men 50-54 2:17.97 - R. Jones - USA	200m Breast - Men 50-54 2:53.76 - M. Sanguly - USA	400m Free - Men 55-59 5:05.55 - G. Johnston - USA	50m Fly - Men 55-59 30.94 - J. Korteheuer - USA
1:00.19 C. Staples US 1:01.55 R. Bassi US 1:01.62 R. Lieb US 1:02.25 W. Van Horn US 1:02.29 G. King AL 1:02.35 T. Harasztl US 1:02.69 K. Donoghue CF 1:02.94 I. McLean GE 1:03.01 H. Southall US 1:03.11 C. Raven US	1:15.85 G. Schmah FRG 1:16.42 Y. Osaki JPN 1:18.41 W. Mulliken USA 1:18.64 E. Chao TPE 1:19.88 A. Arndt USA 1:20.26 M. Moloney AUS 1:20.95 K. Odokole FRG 1:20.98 H. Reichelt USA 1:20.99 C. Hopkins USA 1:21.88 G. Pavettis BRA	1:00.58 D. Hill USA 1:01.30 D. Costill USA 1:02.27 T. Boyes GBR 1:02.28 J. McDiarmid AUS 1:03.49 P. Taft USA 1:03.86 S. Kooistra USA 1:03.96 P. Gay USA 1:04.23 W. Robertson USA 1:04.36 J. Beattie USA 1:05.82 E. Crovetto ITA	2:56.73 R. Schonhaar FRG 3:03.08 M. Sanguly USA 3:05.02 G. Dieckhoff FRG 3:06.61 W. Muller FRG 3:09.66 D. Loeliger AUS 3:10.14 K. Hisamatsu JPN 3:11.4 R. van Ess FRG 3:12.14 H. Lemcke FRG 3:12.51 U. Schmidbauer FRG 3:13.50 K. Fellmer FRG	5:05.55 G. Johnston US 5:17.29 R. Barry AU 5:23.03 P. Buckley US 5:27.93 J. Brownjohn AU 5:29.33 W. Phillips US 5:30.07 S. Yamamoto JF 5:32.41 N. Hayashi JF 5:33.54 R. Beach US 5:35.55 F. Sprenger US 5:36.36 P. Parham US	30.94 J. Korteheuer USA 31.10 H. Beigel USA 32.82 Y. Tsumima JPN 32.76 F. Egami JPN 34.05 B. Johnson USA 34.31 C. Sheldon USA 34.42 C. Zeiss FRG 34.43 A. Allen USA 34.51 W. Gair USA 34.55 R. Wolf USA

100m Fly - Men 55-59 1:14.20 - W. Wilson - USA	1500m Free - Men 60-64 21:43.07 - J. Hale - GBR	200m Fly - Men 60-64 3:09.36 - J. Hale - GBR	50m Back - Men 65-69 37.03 - R. Taft - USA	200m Ind Med - Men 65-69 3:08.27 - R. Taft - USA	100m Back - Men 70-74 1:29.89 - A. Vandeweghe - USA
1:16.31 H. Begele USA 1:20.11 J. Korthauer USA 1:20.13 F. Egami JPN 1:20.45 W. Wilson USA 1:24.51 E. Jansen FRG 1:24.58 Y. Tsushima JPN 1:26.92 A. Allen USA 1:27.04 W. Bickel FRG 1:27.84 T. Tateda JPN 1:28.29 T. Logan NZL	21:46.30 R. Hartley AUS 22:46.33 P. Powlison USA 23:09.62 B. Guttilla USA 23:55.50 F. Piemme USA 24:11.95 D. Draves USA 24:23.66 J. Schmidt USA 24:55.20 R. Frederick USA 25:19.21 J. Edwards USA 25:36.80 L. Silverstein USA 25:45.18 B. Brown AUS	3:13.07 J. Kurtzman USA 3:30.40 J. Katz USA 3:31.88 T. Roach CAN 3:32.11 A. Kelley USA 3:33.95 P. Rockwell USA 3:36.40 A. Koblish USA 3:40.98 E. Rudloff Sr. USA 3:57.36 B. Gaston USA 3:58.74 B. La Mar USA 4:01.57 K. Vickery AUS	37.03 R. Taft USA 38.31 J. Dillely USA 39.35 F. Amaral BRA 39.99 W. Molvie USA 40.28 T. Myojin JPN 40.31 E. Walter USA 40.76 K. Janitzki FRG 41.05 R. Merrick CAN 41.09 H. Miyazaki JPN 41.16 B. Yamamoto USA	3:08.84 R. Taft USA 3:19.90 R. Merrick USA 3:20.09 A. DaRosa BRA 3:23.14 B. Davidson USA 3:29.35 C. Gosstyla USA 3:30.23 E. Walter USA 3:32.96 J. Jenkins FRG 3:33.13 B. Kayser FRG 3:33.16 W. Pearson USA 3:33.84 H. Arendt USA	1:29.89 A. Vandeweghe USA 1:30.52 E. Shea USA 1:35.20 D. Rowan USA 1:36.57 H. Schwarz FRG 1:37.34 W. Rowe USA 1:38.13 O. Claus USA 1:39.23 C. Buchanan NZL 1:39.25 G. Weisenthal USA 1:40.71 J. Garnau USA 1:40.86 R. Westerfield USA
200m Fly - Men 55-59 3:04.49 - C. Moss - USA	50m Back - Men 60-64 35.02 - P. Hutinger - USA	200m Ind. Med. - Men 60-64 2:56.57 - P. Powlison - USA	100m Back - Men 65-69 1:23.99 - R. Taft - USA	400m Ind Med - Men 65-69 6:50.63 - R. Taft - USA	200m Back - Men 70-74 3:18.06 - E. Shea - USA
3:27.58 B. Graja IT 3:28.08 T. Logan NZ 3:29.89 D. Blumenthal US 3:34.56 A. Allen US 3:35.22 R. Franks US 3:35.94 M. Torney C/ 3:37.82 J. Lemmon AL 3:38.03 J. Bauman US 3:39.08 B. Schumacher US 3:42.02 F. Bartlett US	35.02 P. Hutinger USA 38.04 G. Gansley USA 38.12 Y. Nishino JPN 38.69 J. Watt NZL 39.22 J. Woods USA 39.37 F. Piemme USA 39.53 D. Draves USA 39.68 W. Schober FRG 39.80 I. Katz USA 40.19 R. Bloebaum USA	2:59.81 P. Hutinger USA 3:00.59 F. Piemme USA 3:07.36 D. Draves USA 3:11.53 I. Katz USA 3:11.54 K-H. Knops FRG 3:11.77 K. Hauter FRG 3:14.68 T. Roach CAN 3:16.49 D. Korte FRG 3:16.95 J. Woods USA 3:17.06 E. Rudloff Sr. USA	1:23.99 R. Taft USA 1:30.64 H. Liber USA 1:32.02 W. Molvie USA 1:33.13 D. Jeffery AUS 1:34.13 H. Miyazaki JPN 1:34.20 P. Milson CAN 1:34.20 E. Walter USA 1:35.27 G. Williams AUS 1:35.34 B. Yamamoto USA 1:37.98 E. Moran USA	6:50.63 R. Taft US/ 7:21.12 R. Merrick US/ 7:36.56 E. Walter US/ 7:37.38 C. Gosstyla US/ 7:46.21 R. Walker US/ 7:46.84 R. Smith US/ 7:58.34 B. Gaston AU/ 8:00.88 J. Wrenn US/ 8:03.83 N. Fluke US/ 8:04.14 R. Guido US/	3:18.06 E. Shea USA 3:24.16 A. Vandeweghe USA 3:33.45 H. Schwarz FRG 3:34.75 D. Rowan USA 3:40.18 T. Yoneda JPN 3:40.47 W. Rowe USA 3:42.20 R. Westerfield USA 3:47.81 C. Buchanan NZL 3:47.92 F. Wiggln USA 3:56.67 S. Kawabata JPN
200m Ind Med - Men 55-59 2:47.22 - G. Johnston - USA	100m Back - Men 60-64 1:18.06 - P. Hutinger - USA	400m Ind. Med. - Men 60-64 6:32.33 - P. Powlison - USA	200m Back - Men 65-69 3:12.68 - R. Taft - USA	50m Free - Men 70-74 29.35 - K. Lemmon - USA	50m Breast - Men 70-74 41.41 - H. Mier - FRG
2:47.22 G. Johnston US 2:53.76 J. Korthauer US 3:02.31 G. Kuhnel FR 3:03.22 E. Jansen FR 3:06.73 L. Goldstone US 3:07.45 W. Irwin US 3:07.61 E. Difer FR 3:08.05 R. Franks US 3:08.38 T. Logan NZ	1:18.06 P. Hutinger USA 1:27.00 D. Draves USA 1:27.53 J. Watt NZL 1:27.57 G. Gansley USA 1:28.26 I. Katz USA 1:28.93 W. Schober FRG 1:29.61 R. Frederick USA 1:29.68 K. Hauter FRG 1:30.19 J. Woods USA 1:32.42 K. Vickery AUS	6:44.69 I. Katz USA 6:45.95 F. Piemme USA 6:47.23 D. Draves USA 6:47.27 R. Roach CAN 7:19.05 L. Silverstein USA 7:20.05 A. Kelley USA 7:26.99 A. Koblish USA 7:42.95 J. Cranmer USA 7:48.28 B. Papp USA 7:51.12 M. Kevl AUS	3:12.71 R. Taft USA 3:15.97 H. Liber AUS 3:25.48 D. Jeffery AUS 3:27.25 E. Walter USA 3:27.96 G. Williams AUS 3:32.25 R. Anderson USA 3:32.55 E. Moran USA 3:33.87 P. Milson CAN 3:34.94 B. Gaston AUS 3:35.56 H. Fluke USA	32.52 H. Bottcher FR/ 32.55 L. Ross PEI 32.70 W. Ledgard NZ 32.80 W. Bowersock US/ 33.23 A. Vandeweghe US/ 33.43 P. Okumoto US/ 33.61 O. Claus FR/ 33.65 W. Rowe US/ 34.71 D. Woodford NZ 34.78 W. Grant US	42.03 H. Yoshimoto JPN 42.10 B. Allen USA 43.84 E. McCullough USA 43.94 H. Mier FRG 44.71 Y. Hasegawa JPN 46.01 E. Blackledge USA 46.17 H. Perry USA 46.76 U. Oosaki JPN 46.90 A. Lontz FRG 47.80 J. Preiner FRG
400m Ind Med - Men 55-59 5:55.99 - G. Johnston - USA	200m Back - Men 60-64 2:55.18 - P. Hutinger - USA	50m Free - Men 65-69 29.30 - B. Davidson - USA	50m Breast - Men 65-69 39.82 - W. Minich - FRG	100m Free - Men 70-74 1:11.61 - K. Lemmon - USA	100m Breast - Men 70-74 1:33.20 - B. Allen - USA
5:55.99 G. Johnston US 6:31.56 R. Kueny US 6:32.06 J. Korthauer US 6:49.00 R. Franks US 6:51.96 F. Bartlett US 6:55.78 T. Logan NZ 7:02.34 W. Irwin US 7:02.49 G. Gillin US 7:03.89 D. VanRosen US 7:15.10 J. Bauman US	2:55.18 P. Hutinger USA 3:07.83 I. Katz USA 3:13.00 D. Draves USA 3:16.22 W. Schober FRG 3:17.63 G. Gansley USA 3:19.28 J. Woods USA 3:22.00 J. Watt NZL 3:23.47 L. Silverstein USA 3:25.11 K. Vickery AUS 3:28.24 W. Dolphin USA	31.59 F. Amaral BRA 31.89 J. Jung FRG 32.15 K. Janitzki FRG 32.15 W. Pearson USA 32.37 A. Holden USA 32.37 P. Milson CAN 32.42 R. Kennedy JPN 32.53 D. Murray AUS 32.73 B. Davidson USA 32.74 J. Dillely USA 32.74 G. Williams AUS	39.82 W. Minich FRG 41.27 R. Morrison USA 41.85 A. DaRosa USA 42.25 H. Becker FRG 42.37 P. Krup USA 42.65 Y. Miyamoto JPN 43.28 R. Naemura JPN 43.41 J. Laird USA 43.58 S. Krasey AUS 45.26 K. Kamm FRG	1:11.61 K. Lemmon USA 1:16.62 H. Ueki JP 1:17.51 W. Bowersock US/ 1:17.85 P. Okumoto US/ 1:18.72 H. Bottcher FR/ 1:20.06 O. James US/ 1:22.00 E. Reynolds CA/ 1:22.41 S. Boardman NZ/ 1:22.50 D. Woodford FRG 1:22.56 G. Weisenthal US	1:36.07 B. Allen USA 1:38.14 E. McCullough USA 1:40.10 H. Yoshimoto JPN 1:40.87 E. Blackledge USA 1:46.06 M. Offner USA 1:47.49 H. Perry USA 1:47.55 H. Thadewald FRG 1:47.98 A. Lontz FRG 1:54.90 J. Johnston USA 1:57.21 D. Stevenson USA
50m Free - Men 60-64 28.60 - P. Powlison - USA	50m Breast - Men 60-64 38.04 - J. Kurtzman - USA	100m Free - Men 65-69 1:08.15 - J. Welch - USA	100m Breast - Men 65-69 1:31.07 - W. Minich - FRG	200m Free - Men 70-74 2:44.86 - K. Lemmon - USA	200m Breast - Men 7-74 3:36.00 - B. Allen - USA
28.60 P. Powlison US 28.88 F. Piemme US 30.69 S. Maki BR 30.83 J. Florence US 31.02 H. McAuley US 31.16 J. Watt NZ 31.24 J. Howe US 31.29 J. Schmidt US 31.44 P. Rockwell US 31.79 R. Frederick US	38.04 J. Kurtzman US 38.80 K-H. Knops FR 38.81 T. Tajima JP 39.42 P. Powlison US 39.45 F. Piemme US 39.79 E. Rudloff Sr. US 40.21 J. Forbes US 40.96 I. Ikegami JP 41.36 D. Korte FR 41.37 F. Panke FR	1:08.15 J. Welch USA 1:11.46 R. Taft USA 1:11.78 A. Holden USA 1:12.92 H. Jung FRG 1:14.93 G. Williams AUS 1:15.59 J. Welch USA 1:15.89 K. Janitzki FRG 1:16.25 W. Odman FRG 1:16.27 W. Pearson USA 1:16.33 P. Milson CAN 1:16.56 T. Myojin JPN	1:31.98 W. Minich FRG 1:32.23 A. DaRosa USA 1:34.84 P. Krup USA 1:35.08 T. Huo TPE 1:36.35 R. Merrick USA 1:36.56 R. Naemura JPN 1:38.37 Y. Miyamoto JPN 1:40.26 B. McCabe AUS 1:40.93 K. Kamm FRG 1:42.17 J. Laird USA	2:44.86 K. Lemmon USA 2:55.65 H. Ueki JP 2:58.14 W. Ledgard PE 3:03.24 P. Okumoto US/ 3:04.61 D. Woodford NZ/ 3:06.65 S. Boardman NZ/ 3:09.65 G. DeSilva IT/ 3:09.66 O. Claus FF/ 3:12.00 W. Bowersock US/ 3:13.62 G. Weisenthal US/ 3:18.77 E. Van Horn US/	3:36.00 B. Allen USA 3:43.30 B. Allen USA 3:48.07 H. Yoshimoto JPN 3:52.55 M. Offner USA 3:56.10 N. Otis US/ 3:57.50 E. Blackledge US/ 4:00.98 H. Thadewald FRG 4:08.18 Y. Hasegawa JPN 4:11.22 A. Lontz FRG 4:12.1 E. Reynolds CAN
100m Free - Men 60-64 1:03.94 - P. Powlison - USA	100m Breast - Men 60-64 1:27.50 - P. Powlison - USA	200m Free - Men 65-69 2:38.11 - J. Welch - USA	200m Breast - Men 65-69 3:27.47 - A. DaRosa - USA	400m Free - Men 70-74 12:45.90 - N. Artus - CAN	50m Fly - Men 70-74 37.96 - H. Mier - FRG
1:03.94 P. Powlison USA 1:07.10 F. Piemme USA 1:09.91 B. Guttilla USA 1:10.02 J. Florence USA 1:10.13 R. Frederick USA 1:10.68 T. Iwagoh JPN 1:11.68 P. Rockwell USA 1:11.71 J. Woods USA 1:12.34 J. Watt NZL 1:12.66 K. Vickery AUS	1:27.50 P. Powlison US 1:30.18 K-H. Knops FR 1:30.32 J. Kurtzman US 1:31.46 P. Mumfer FR 1:31.73 F. Piemme US 1:32.10 E. Rudloff Sr. US 1:32.60 T. Roach CA 1:33.30 F. Najera ME 1:33.77 T. Yasukawa JP 1:34.26 K. Hauter FR	2:38.11 J. Welch USA 2:39.79 R. Taft USA 2:43.38 D. Suzuki JPN 2:49.64 G. Williams AUS 2:50.79 A. DaRosa USA 2:51.08 J. Welch USA 2:52.09 R. Merrick USA 2:52.43 W. Odman FRG 2:54.31 B. Harris AUS 2:57.77 F. Taoli USA	3:27.47 A. DaRosa USA 3:28.41 W. Minich FRG 3:28.47 A. DaRosa USA 3:32.13 T. Huo TPE 3:35.63 R. Merrick USA 3:36.66 K. Kamm FRG 3:38.40 P. Krup USA 3:40.85 J. Laird USA 3:43.70 B. McCabe AUS 3:47.28 Y. Miyamoto JPN 3:49.13 J. Laird USA	12:45.90 N. Artus - CAN 12:54.04 H. Ueki JPN 13:41.37 E. Shea USA 14:45.19 E. Van Horn USA 14:52.29 W. Bowersock USA 15:10.50 J. Stinson USA 15:11.08 G. Crossett USA 15:20.69 A. Vandeweghe USA 15:37.58 D. Rowan USA 15:40.57 G. Weisenthal USA 15:42.24 H. Schwarz FRG	37.96 H. Mier FRG 40.99 H. Mier FRG 41.91 E. McCullough USA 42.49 D. Rowan USA 42.51 Y. Hasegawa JPN 42.96 W. Grant USA 43.52 A. Vandeweghe USA 44.90 C. Bartsch FRG 46.18 H. Bottcher FRG 46.25 E. Blackledge USA 47.38 J. Johnston USA
200m Free - Men 60-64 2:26.94 - P. Powlison - USA	200m Breast - Men 60-64 3:17.55 - P. Powlison - USA	400m Free - Men 65-69 5:38.79 - J. Welch - USA	50m Fly - Men 65-69 35.21 - A. Holden - USA	800m Free - Men 70-74 12:45.90 - N. Artus - CAN	100m Fly - Men 70-74 1:39.69 - W. Pfeiffer - USA
2:26.94 P. Powlison USA 2:38.11 B. Guttilla USA 2:39.78 F. Piemme USA 2:43.04 D. Draves USA 2:43.21 K. Vickery AUS 2:46.21 J. Woods USA 2:46.81 K. Ishii JPN 2:47.21 R. Frederick USA 2:47.79 E. Kerswill USA 2:48.80 J. Schmidt USA	3:17.55 P. Powlison US 3:18.00 K-H. Knops FR 3:20.84 P. Mumfer FR 3:23.54 K. Hauter FR 3:24.54 I. Ikegami JP 3:26.99 E. Rudloff Sr. US 3:28.56 F. Najera ME 3:28.82 T. Roach CA 3:29.74 G. Funk FR 3:25.25 J. Kurtzman US	5:38.79 J. Welch USA 5:49.18 D. Suzuki JPN 6:10.33 B. Davidson USA 6:11.17 J. Welch USA 6:11.81 F. Taoli USA 6:14.81 R. Merrick USA 6:17.04 G. Williams AUS 6:20.45 E. Moran USA 6:21.00 R. Smith USA 6:29.60 W. Odman USA 6:32.28 R. Guido USA	35.21 A. Holden USA 36.36 A. Holden USA 36.52 R. Taft USA 38.79 P. Krup USA 39.30 G. Hein FRG 39.49 H. Richards USA 39.76 C. Gosstyla USA 40.15 E. Walter USA 40.21 H. Moseley USA 40.31 P. Crago USA 40.70 W. Uhrich USA	12:45.90 N. Artus - CAN 12:54.04 H. Ueki JPN 13:41.37 E. Shea USA 14:45.19 E. Van Horn USA 14:52.29 W. Bowersock USA 15:10.50 J. Stinson USA 15:11.08 G. Crossett USA 15:20.69 A. Vandeweghe USA 15:37.58 D. Rowan USA 15:40.57 G. Weisenthal USA 15:42.24 H. Schwarz FRG	1:39.69 W. Pfeiffer USA 1:47.68 W. Grant US/ 1:48.93 J. Stinson US/ 1:52.83 N. Otis US/ 1:54.69 M. Offner US/ 1:56.01 Y. Hasegawa JPN 1:58.54 J. Johnston US/ 1:58.55 W. Fite US/ 2:05.19 E. Blackledge US/ 2:07.6 C. Bartsch FRG 2:16.39 J. Donovan US/
400m Free - Men 60-64 5:26.31 - P. Powlison - USA	50m Fly - Men 60-64 32.19 - F. Piemme - USA	800m Free - Men 65-69 12:09.27 - L. Surlis - USA	100m Fly - Men 65-69 1:29.32 - A. Holden - USA	1500m Free - Men 70-74 25:13.42 - W. Ledgard - PER	200m Fly - Men 70-74 3:43.08 - W. Pfeiffer - USA
5:26.31 P. Powlison USA 5:28.31 R. Hartley AUS 5:40.67 B. Guttilla USA 5:53.75 K. Ishii JPN 5:57.22 J. Woods USA 5:58.27 K. Vickery AUS 6:01.38 D. Draves USA 6:01.50 R. Frederick USA 6:03.05 J. Schmidt USA 6:13.04 J. Edwards USA	32.19 F. Piemme US 33.11 F. Piemme US 33.18 P. Hutinger US 34.84 H. McAuley US 35.07 R. Aust FRG 35.35 J. Kurtzman US 35.92 J. Schmidt US 36.19 D. Korte FR 36.65 I. Katz US 37.04 J. Woods US	12:09.27 L. Surlis USA 12:19.10 D. Suzuki JPN 12:38.68 R. Taft US/ 12:50.00 J. Welch US/ 13:08.00 F. Taoli US/ 13:14.72 A. DaRosa US/ 13:15.50 R. Merrick US/ 13:26.67 N. Okada JPN/ 13:31.07 S. Carlson US/ 13:36.48 E. Moran US/ 13:37.52 F. Murphy US/	1:29.32 A. Holden USA 1:33.61 P. Krup USA 1:38.29 R. Merrick USA 1:38.70 C. Gosstyla USA 1:39.86 B. Davidson USA 1:41.72 H. Moseley USA 1:42.58 E. Walter USA 1:43.36 R. Taft USA 1:43.48 H. Richards USA 1:43.99 B. Kayser FRG	25:13.42 W. Ledgard PER 25:15.29 H. Howe USA 26:36.15 D. Woodford USA 28:13.73 G. Weisenthal USA 28:39.19 N. Skjersaa USA 29:09.55 J. Stinson USA 29:39.85 W. Bowersock USA 30:08.86 J. Donovan USA 31:31.11 J. Morrison USA 32:16.40 E. Blackledge USA	3:43.08 W. Pfeiffer USA 4:01.93 N. Otis US/ 4:12.06 J. Stinson US/ 4:27.75 J. Johnston US/ 4:27.83 W. Fite US/ 4:42.39 D. Stevenson US/ 4:44.61 J. Donovan US/ 5:26.33 F. Tillotson US/ 7:24.09 J. Broomhead AU/
800m Free - Men 60-64 11:24.99 - R. Hartley - AUS	100m Fly - Men 60-64 1:29.90 - J. Hale - GBR	1500m Free - Men 65-69 23:04.59 - J. Welch - USA	200m Fly - Men 65-69 3:34.69 - B. Davidson - USA	50m Back - Men 70-74 39.64 - E. Shea - USA	200m Ind. Med. - Men 70-74 3:21.96 - K. Lemmon - USA
11:24.99 R. Hartley AUS 11:51.63 P. Powlison USA 11:55.36 B. Guttilla USA 12:31.91 E. Kerswill USA 12:35.88 K. Ishii JPN 12:40.66 K. Vickery AUS 12:43.05 D. Draves USA 12:55.43 J. Schmidt USA 13:05.90 J. Edwards USA 13:21.67 L. Silverstein USA	1:23.11 F. Piemme USA 1:24.52 J. Kurtzman USA 1:29.6 K-H. Knops FRG 1:30.2 H. Kober FRG 1:31.11 P. Rockwell USA 1:32.86 J. Woods USA 1:33.57 R. Cowling USA 1:34.26 A. Kelley USA 1:35.7 R. Aust FRG 1:36.55 F. Najera MEX	23:04.59 J. Welch USA 23:25.26 D. Suzuki JPN 23:34.66 R. Taft USA 24:06.02 J. Welch USA 25:20.69 F. Taoli USA 25:30.28 R. Merrick USA 25:49.12 E. Moran USA 25:49.73 R. Smith USA 25:56.46 R. Guido USA 27:16.43 H. Richards USA 27:22.49 C. Gosstyla USA	3:34.69 B. Davidson USA 3:36.54 A. Holden USA 3:38.30 P. Krup USA 3:42.19 R. Merrick USA 3:44.12 C. Gosstyla USA 3:48.83 E. Walter USA 3:51.67 A. DaRosa USA 3:55.00 R. Guido USA 4:04.61 H. Moseley USA 4:08.64 W. Johnston USA 4:40.91 R. Morse USA	39.64 E. Shea USA 39.72 E. Shea USA 39.76 A. Vandeweghe USA 40.80 O. Claus FRG 41.12 W. Rowe USA 41.58 T. Yoneda JPN 42.21 G. Weisenthal USA 42.63 H. Schwarz FRG 43.25 M. Kiyokawa JPN 43.33 S. Kawabata JPN	3:21.96 K. Lemmon USA 3:32.23 A. Vandeweghe USA 3:34.52 E. McCullough USA 3:44.92 R. Westerfield USA 3:47.69 N. Otis USA 3:49.18 F. Wiggln USA 3:55.46 W. Fite USA 3:56.86 J. Johnston USA 3:58.24 H. Siegel FRG 4:01.62 E. Blackledge USA

400m Ind. Med. - Men 70-74 7:29.78 - W. Pfeiffer - USA	4:27.96 G. Corson 4:32.19 S. Shott 4:41.86 W. Murayama 4:42.59 F. Griffiths 4:47.55 M. Young 50m Breast - Men 75-79 44.86 - K. Wittenberg - FRG	US/ US/ JPN AUS/ US/ FRG	1:58.99 P. Jurczyk 1:59.66 H. Fowler 1:59.89 J. Robinson 2:09.59 J. Earley 2:14.72 J. Kaufman 2:23.48 J. Burns 2:25.78 C. McCallister	USA USA AUS USA USA USA USA	1:32.25 P. Jurczyk 1:39.40 H. Fowler 1:42.07 G. Langner	USA USA USA	Womens 200m Free Relay (200+) 2:16.01 - Power Points - AUS	Mixed 200m Free Relay (-119) 1:47.92 - New England - USA
7:46.51 E. McCullough 7:56.03 D. Jeffery 8:01.00 N. O'ty 8:20.54 R. Westerfield 8:21.05 F. Wiggins 8:25.67 J. Stinson 8:30.96 W. Fite 8:44.90 J. Johnston 8:52.12 D. Stevenson 9:08.30 E. Blackledge	44.86 K. Wittenberg 45.39 H. Perry 46.69 R. Zoegel 47.37 W. Shott 48.44 K. Koyama 48.77 D. Dotterweich 49.88 E. Riemers 50.40 H. Kohler 51.97 H. Deutzmann 52.62 J. Penfield	USA USA USA USA USA USA USA USA USA USA	3:39.54 G. Langner 4:04.55 S. Yoshida 4:20.91 C. Jardine 4:33.00 A. Olanoff 4:44.63 P. Jurczyk 4:50.86 J. Robinson 5:01.19 H. Fowler 5:06.01 J. Earley 5:10.93 J. Kaufman 5:35.13 S. Loeffler	USA JPN USA USA USA USA USA USA USA USA	5:11.50 A. Kallunki 5:22.76 A. Olanoff	USA USA	2:16.01 Power Points 2:18.43 Tamalpais 2:20.91 Southern Calif. 2:22.21 Mainichi 2:22.29 Oregon 2:30.11 Trillium 2:33.67 Southern Calif. 2:34.86 Ettalong 2:36.41 Rinconada 2:37.36 North Lodge	1:48.03 Texas 1:50.10 UBC Masters 1:51.61 Oregon 1:53.04 Osborne Park 1:53.41 Georgia Whales 1:54.39 Walnut Creek 1:54.63 Adelaide 1:55.42 Tea Tree Gully 1:56.68 Southern Calif. 1:56.81 Oregon
50m Free - Men 75-79 32.50 - L. Collett - USA	100m Breast - Men 75-79 1:48.25 - W. Richter - FRG	USA FRG	7:42.21 G. Langner 7:43.68 P. Jurczyk 10:17.14 A. Kallunki 10:42.82 J. Kaufman 10:52.25 C. Jardine 12:21.28 H. Fowler 12:47.00 C. McCallister 12:57.61 L. Belmour	USA USA USA USA USA USA USA USA	1:28.10 T. Lopez 1:49.71 R. Webster	USA USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (120+) 1:47.39 - D. C. Masters - USA
35.59 T. Terao 35.69 F. Griffiths 36.28 G. Sobel 37.12 E. Riemers 37.23 R. Zoegel 37.29 F. Bellaire 37.29 W. Shott 37.63 D. Dotterweich 37.73 T. Robertson 38.32 K. Wittenberg	1:48.37 H. Perry 1:53.34 W. Shott 1:59.11 D. Dotterweich 2:02.69 K. Koyama 2:02.72 H. Deutzmann 2:04.20 J. McDiarmid 2:04.85 W. Share 2:07.34 F. Griffiths 2:11.82 H. Barr 2:13.96 E. Poole	USA USA USA USA USA USA USA USA USA USA	4:00m Free - Men 80-84 7:23.09 - G. Langner - USA	USA	7:24.18 R. Webster 50m Back - Men 85-89 1:01.44 - T. Cureton - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (120+) 1:47.39 - D. C. Masters - USA
100m Free - Men 75-79 1:18.53 - L. Collett - USA	200m Breast - Men 75-79 3:59.81 - R. Zoegel - FRG	USA FRG	800m Free - Men 80-84 15:53.15 - G. Langner - USA	USA	3:30.78 T. Lopez 3:44.85 R. Webster	USA USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (160+) 1:55.38 - Kansai - JPN
1:23.69 T. Terao 1:26.43 G. Sobel 1:28.51 F. Bellaire 1:29.81 L. Osborne 1:29.99 J. Irvine 1:31.11 T. Robertson 1:31.28 E. Riemers 1:31.89 W. Shott 1:33.88 F. Jowett 1:34.49 R. Zoegel	4:04.26 H. Perry 4:23.38 D. Dotterweich 4:27.58 W. Shott 4:33.51 F. Griffiths 4:42.33 R. Zoegel 4:46.22 K. Koyama 4:48.12 W. Share 4:56.73 T. Kampmann 4:57.79 A. Gilsdorf 4:58.91 J. Penfield	USA USA USA USA USA USA USA USA USA USA	1500m Free - Men 80-84 28:54.95 - G. Langner - USA	USA	5:15.15 T. Cureton	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (200+) 2:04.86 - Caledonian - GBR
3:16.00 T. Terao 3:18.76 L. Osborne 3:29.04 T. Robertson 3:30.58 K. Wittenberg 3:31.53 W. Shott 3:32.00 G. Sobel 3:33.67 J. Irvine 3:33.70 F. Bellaire 3:33.89 D. McAfee 3:35.33 A. Fujita	50m Fly - Men 75-79 42.11 - W. Shott - USA	USA USA USA USA USA USA USA USA USA USA	200m Breast - Men 85-89 17:33.53 G. Langner 19:42.29 A. Olanoff 29:33.28 H. Fowler	USA USA USA	7:03.18 T. Lopez 8:07.37 R. Webster	USA USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (240+) 2:14.93 - Southern Calif. - USA
400m Free - Men 75-79 6:27.26 - A. Rule - USA	50m Fly - Men 75-79 42.11 - W. Shott - USA	USA USA	500m Free - Men 85-89 1:06.00 T. Lane - USA	USA	1:20.23 R. Webster 2:37.13 T. Lopez	USA USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (240+) 2:14.93 - Southern Calif. - USA
6:57.41 T. Terao 6:58.34 L. Osborne 7:31.39 T. Robertson 7:48.59 J. Irvine 7:53.53 R. Gottardi 7:55.65 D. McAfee 8:05.87 H. Eisenschmidt 8:05.89 C. Wood 8:16.49 J. Rogers 8:17.56 W. Shott	100m Fly - Men 75-79 1:49.04 - W. Shott - USA	USA USA USA USA USA USA USA USA USA USA	100m Breast - Men 85-89 2:43.08 - T. Lane - USA	USA	3:12.00 J. Whittemore 3:19.67 R. Webster	USA USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (240+) 2:14.93 - Southern Calif. - USA
800m Free - Men 75-79 14:33.62 - T. Terao - JPN	200m Fly - Men 75-79 4:34.59 - B. Stinson - USA	USA USA	200m Breast - Men 85-89 6:23.90 - T. Lane - USA	USA	7:20.23 R. Webster	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
14:32.09 L. Osborne 15:02.41 T. Terao 15:44.49 T. Robertson 16:16.16 W. Shott 16:19.72 J. Irvine 17:31.22 J. Burns 18:22.77 J. Newton	50m Breast - Men 85-89 40.47 - A. Hargrave - USA	USA USA USA USA USA USA USA	50m Free - Men 90 Plus 59.88 - C. Wheeler - USA	USA	1:03.03 C. Wheeler	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
1500 Free - Men 75-79 26:08.40 - A. Rule - USA	400m Ind Med - Men 75-79 8:53.00 - L. Osborne - USA	USA USA	100m Free - Men 90 Plus 2:14.06 - C. Wheeler - USA	USA	2:25.50 C. Wheeler	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
28:09.90 L. Osborne 30:06.06 D. McAfee 31:24.55 J. Irvine 31:48.48 B. Shott 33:11.41 L. Chapin 34:11.81 A. Guth 35:46.11 J. Newton	200m Ind Med - Men 75-79 9:26.67 W. Shott	USA USA USA USA USA USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
50m Back - Men 75-79 40.47 - A. Hargrave - USA	400m Ind Med - Men 75-79 8:53.00 - L. Osborne - USA	USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
46.59 C. Morgan 46.76 L. Osborne 47.33 T. Monahan 48.01 E. Fuchs 48.93 K. Wittenberg 49.24 H. Deutzmann 49.63 L. Starr 50.00 H. Eisenschmidt 50.33 G. Corson 51.75 J. Irvine	50m Breast - Men 80-84 38.95 - C. Ross - USA	USA USA USA USA USA USA USA USA USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
100m Back - Men 75-79 1:32.92 - A. Hargrave - USA	50m Free - Men 80-84 38.95 - C. Ross - USA	USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
1:52.19 H. Eisenschmidt 1:52.65 L. Starr 1:55.42 L. Osborne 1:55.55 E. Fuchs 1:55.95 W. Shott 1:58.66 G. Corson 1:59.54 J. Irvine 1:59.87 J. Hoey 2:00.72 H. Deutzmann 2:01.40 S. Murayama	200m Ind Med - Men 75-79 9:26.67 W. Shott	USA USA USA USA USA USA USA USA USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
200m Back - Men 75-79 3:34.86 - A. Hargrave - USA	50m Free - Men 80-84 38.95 - C. Ross - USA	USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN
4:04.46 H. Eisenschmidt 4:15.66 R. Gottardi 4:17.70 T. Monahan 4:21.28 J. Hoey 4:25.08 L. Starr	50m Free - Men 80-84 38.95 - C. Ross - USA	USA USA USA USA USA	Womens 200m Free Relay (-119) 1:58.30 - New England - USA	USA	1:58.30 - New England - USA	USA	2:43.47 Santa Barbara 2:46.24 Noborito 2:49.98 Gremio Sul America 2:50.81 Oregon 2:51.50 North Lodge 2:53.79 Mainichi 2:54.41 Manly 2:56.59 San Mateo 2:59.21 Power Points 3:00.83 San Diego	Mixed 200m Free Relay (280+) 2:42.19 - Mainichi - JPN

Mixed 200m Medley Relay (200+)
2:23.34 - Tamalpais - USA

2:23.34 Tamalpais US
2:23.62 Southern Calif. US
2:23.81 Pacific Northwest US
2:26.31 Oregon US
2:27.06 Mainichi JPN
2:27.76 Leisure Coast AUS
2:30.73 Los Altos US
2:31.59 Dolphin JPN
2:31.83 Gremio Sul America BR
2:33.28 Pacific Northwest US

Mixed 200m Medley Relay (240+)
2:42.29 - Connecticut - USA

2:42.41 Oregon US
2:44.50 Southern Calif. US
2:44.95 Gremio Sul America BR
2:46.00 North Lodge AL
2:49.11 Power Points AL
2:49.50 Walnut Creek US
2:49.51 San Mateo US
2:54.12 Pacific Northwest US
2:56.19 San Diego US
2:56.63 Arizona US

Mixed 200m Medley Relay (280+)
3:03.75 - Southern Calif. - USA

3:03.75 Southern Calif. US
3:25.20 Pacific Northwest US
3:25.88 Sapporo JPN
3:29.41 San Mateo US
3:45.67 Central Coast US
3:52.21 Mainichi JPN
4:01.76 Ettalong AL
4:07.21 St. Petersburg US
4:13.13 Walnut Creek US
4:30.97 Oregon US

Mens 200m Free Relay (-119)
1:41.32 - Valley Forge - USA

1:42.76 Santa Barbara USA
1:43.18 Cron-Sutherland AUS
1:43.31 Pacific Northwest USA
1:44.62 Georgia Whales USA
1:44.86 Gremio Sul America BRA
1:45.34 Oregon USA
1:46.55 Osborne Park AUS
1:47.17 Western Districts AUS
1:47.67 Snake River USA
1:47.72 Brisbane Southside AUS

Mens 200m Free Relay (120+)
1:37.43 - Lone Star - USA

1:37.43 Lone Star USA
1:37.49 Olympic Club USA
1:40.07 Pacific Northwest USA
1:43.93 Warringham AUS
1:44.99 Oregon USA
1:45.31 Texas USA
1:45.44 Asahi JPN
1:46.33 Lakeside USA
1:46.56 Walnut Creek USA
1:46.86 Gremio Sul America BRA

Mens 200m Free Relay (160+)
1:43.93 - Olympic Club - USA

1:43.93 Olympic Club USA
1:45.92 Oregon USA
1:48.63 Motherwell GBR
1:48.76 Suginamiku JPN
1:50.11 Walnut Creek USA
1:50.76 Dist. Columbia USA
1:51.59 Gremio Sul America BRA
1:51.75 Casuarina CAN
1:51.86 Pacific Northwest USA

Mens 200m Free Relay (200+)
1:50.45 - Olympic Club - USA

1:50.45 Olympic Club USA
1:53.40 Leisure Coast AUS
1:55.53 Pacific Northwest USA
1:56.22 Warringham AUS
1:56.93 San Mateo USA
1:57.74 Uolfin JPN
1:58.15 Taipei TPE
2:00.76 Oregon USA
2:00.82 Mainichi JPN
2:00.93 Takooka JPN

Mens 200m Free Relay (240+)
2:02.48 - So. Calif. - USA

2:02.48 Southern Calif. USA
2:03.29 Isetan JPN
2:08.50 Gremio Sul America BRA
2:10.19 San Diego USA
2:11.96 Empire State USA
2:11.96 Oregon USA
2:14.66 Rinconada USA
2:14.91 Ettalong AUS
2:16.00 Manly AUS
2:16.85 Oregon USA

Mens 200m Free Relay (280+)
2:18.63 - Middle Atlantic - USA

2:18.63 Middle Atlantic USA
2:19.65 Empire State USA
2:20.84 Mainichi JPN
2:22.38 Manly AUS
2:25.31 Lone Star USA
2:25.80 Ettalong AUS
2:30.07 Pacific Northwest USA
2:32.56 Long Beach USA
2:32.94 Oregon USA
2:34.00 Southern Calif. USA

Mens 200m Medley Relay (119-)
1:50.98 - D. C. Masters - USA

1:52.72 Gremio Sul America BRA
1:57.01 San Jose USA
1:58.50 Oregon USA
1:58.92 Pacific Northwest USA
2:02.75 Warringham AUS
2:03.12 Osborne Park AUS
2:03.38 Tokyo Marine JPN
2:03.70 Western Districts AUS
2:03.73 Charleston USA
2:03.75 Tea Tree Gully AUS

Mens 200m Medley Relay (120+)
1:52.54 - Olympic Club - USA

1:52.54 Olympic Club USA
1:54.80 Pacific Northwest USA
1:56.49 Lone Star USA
1:57.27 Warringham AUS
1:58.63 Oregon USA
1:58.96 Walnut Creek USA
2:00.03 Univ. Brit. Col. CAN
2:00.06 Georgia Whales USA
2:00.45 Olympic Club USA
2:02.07 Cairns AUS

Mens 200m Medley Relay (160+)
2:00.93 - Kansaf - JPN

2:00.93 Kansaf JPN
2:01.53 Arkansas US
2:02.23 Oregon US
2:03.02 Asahi Chiba JPN
2:03.59 Pacific Northwest US
2:03.70 Gremio Sul America BR
2:04.12 Southern Calif. US
2:04.16 Honda JPN
2:05.58 San Diego US
2:06.05 YUU JPN

Mens 200m Medley Relay (200+)
2:10.26 - Gremio Sul America-

2:13.08 Olympic Club U
2:13.78 Warringham A
2:14.34 San Mateo U
2:14.72 Leisure Coast U
2:16.42 San Diego U
2:16.81 Dolphin J
2:16.85 San Diego U
2:17.20 Oregon U
2:17.65 Walnut Creek U
2:18.27 Tokyo YMCA J

Mens 200m Medley Relay (280+)
2:23.63 - Southern Calif. - U

2:23.63 Southern Calif. U
2:28.42 Mainichi J
2:28.81 Olympic Club U
2:33.1 Gremio Sul America BR
2:34.61 Ettalong A
2:34.69 Tamalpais U
2:35.33 San Diego U
2:38.06 Kanazawa J
2:38.16 Somerset A
2:39.24 Pacific Northwest U

Mens 200m Medley Relay (280+)
2:51.98 - Lone Star - USA

2:51.98 Lone Star U
2:53.12 Oregon U
2:57.00 Ettalong A
3:00.34 Pacific Northwest U
3:01.51 Middle Atlantic U
3:01.61 Manly A
3:02.50 Southern Calif. U
3:05.87 Long Beach U
3:11.41 Mainichi J
3:13.66 Jersey U

Some of Houston's best bods tell us how they do it

Mike Muckleroy

By Clifford Pugh

Mike Muckleroy, 57, is president of Enron Liquid Fuels, a subsidiary of Enron Corp., the nation's largest gas pipeline system. A competitive swimmer in high school and college, he didn't use swimming as exercise for 25 years. But six months ago he began a regular master's swim program.

Why did you get involved in regular exercise again?

With the pressure and stress in our (oil) industry and with the tough times we've had, I just found it awfully easy to get in the habit of eating the extra greasy meal and not working out. And over a period of three years I went up from 197 (pounds) to 213. It's not a lot of weight but my condition was terrible.

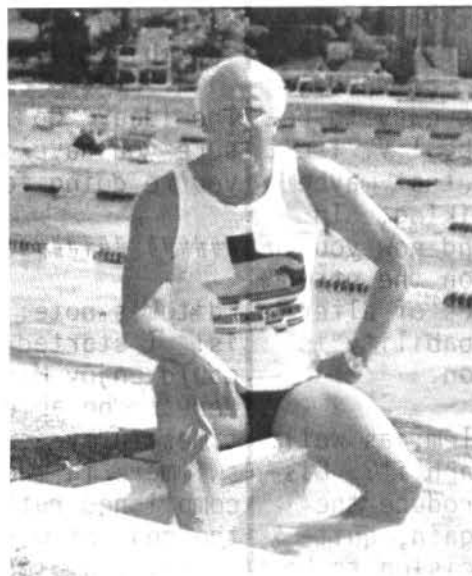
Why do you swim?

Unfortunately I had a skiing accident and then finished my knee off with bowling and I physically could not run or get into a strong walking program. So swimming was a natural adjunct for me.

The beauty of it is it's good for anybody because you don't hear of swimmers spraining their ankles, ruining their knees or straining their backs. I think that swimming for exercise for somebody over 40 years old is a heck of a lot better.

Do you ever miss a day?

I try to swim around 60 laps every day. It takes the better part of 45 minutes.



How do you work it into your schedule?

Basically you just have to commit that you are going to find one hour a day to do the workout. I've come back into town as late as 9 o'clock at night from a two-day trip and gone straight from the airport to the pool to work out for 45 minutes. Then the next day I get up and work out in the morning.

What about your diet?

I've pushed the extra servings back and tried to eliminate milk and any cholesterol-type food wherever possible and not eat as large portions of the main thing and less meat and more fish and chicken. I've gone from 213 to 196. I just had a physical, and in all facets of the examination I improved my physical condition dramatically.

Is it hard to get back into the swim of things?

You can't go out and start swimming a mile the first day. I worked into it very gradually. When I started, 500 yards was my target at a very, very slow pace. Then, as I added distance and endurance, I stepped up the time.

What do you think about when you swim?

The beauty of it is that literally you can't think about anything stress-related. When you dive into the pool you're thinking about your strokes and pushing yourself and controlling your heartbeat. You're thinking about only one thing and that's the swimming you're doing at the moment.

Photo by Bruce Bennett



ALTERNATIVE GOALS

by
Bert Petersen

Swimmers beware! There's a trap waiting for you in the future. It's one you've laid for yourself and it can do you in and put you on the wrong track just as easily as any drug or disease. I'm talking about the trap of complacency --the old "I did it; now what?" idea. What causes this to happen and how to avoid it is the essence of this article.

Now, think back to people you know personally in your own swimming world. Have you ever seen someone begin in Masters, charge forward, break records, win championships and then suddenly quit? If not, just go back through ole issues of swimming magazines and chart the progress of some people from perhaps 10 or 15 years ago. Do they suddenly vanish from the pages? You've undoubtedly heard of "burn-out", where an athlete simply tires of the training grind and either quits or changes sports. What we need to examine here is more subtle than you may think and perhaps is a contributing factor to burning out.

It seems to me that the primary cause for losing interest is in the failure to set alternative goals. For example: if all you want is just one first place medal from just one meet you will probably succeed very quickly in meeting that goal. The problem now becomes "what do we do next?". At this point in time it is easy to become distracted and decide that maybe T.V. isn't such a vast wasteland after all, or that maybe checkers or chess is more to your liking. In other words, you've met your goal and now you can quit or change direction. If, on the other hand, you had set up an entire series of alternative goals to begin with, the probability is much higher that you will continue on.

There is a reverse side to the problem, as well. What if you set a goal and never reach it? Disillusion and defeat will probably produce the same result as achievement! Once again, quitting or changing will become the decision to be made instead of carrying on.

If we, as Masters, truly believe in the beneficial aspects of our sport - if we really do want the fun, fitness and fellowship which swimming offers - then I believe we each owe it to ourselves to take another look at the question "What am I doing this for?". The answer lies in setting reasonable and varied goals. In a sport involving such a myriad of strokes, distances and age groups there really is no excuse for becoming bored.

So, let's try to establish some thought processes

RIGHT NOW that will enable you to escape future doldrums. Begin by acknowledging that, no matter what else happens, you're in this for the fitness. Your "bottom-line" is that even if all else fails, you get to enjoy an unprecedented level of physical well-being through your swimming. Then begin thinking about some immediate goals for this year; for example: I am going to try to break such and such time for the 50 fly this year. Embellish these short-range goals with ideas about how to accomplish them - stroke correction, different work-outs, weight work, etc. At the same time, set an alternative goal - perhaps an improvement in your freestyle time and begin to think ahead to some longer range ideas.

I know this sounds simplistic, but not considering in advance the consequences of meeting (or failing to meet) your goals, can be devastating to your whole program. You have to be thinking one step ahead all the time to be prepared and you must have more than one alternative available. The ones who have stuck with it through many years - some good, some not so good - have done it by avoiding the tunnel vision trap of having only one goal. When the great ones meet their objectives, they have already created new ones.

When the great ones fail to meet their goals, they figure out new ways to try again. But always they have had varied and continually changing objectives.

The idea, "Go for it" is a good one. Just be sure you have other "its" to replace the one you're going for.

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Editor's-note: How very true the above article is! I started working out in 1971 to see if I could enjoy Masters Swimming. My first goals were to be able to swim in practice the record times in my age group. (Not quite as many good swimmers in the beginning, and so this was accomplished rather quickly.) Then of course came the goal of winning all of my events at the National Championships. This I have done several times. Then for the first five years I tried to break 24 minutes for the 1650. I never really accomplished this goal, but I did swim my fastest times in some events after the first five years. I have charted all of my times in all of the events over the last 15 years. This is fun to look at. And in the last ten years, my goal has been to just swim one event faster than I did the previous year! This goal can go on for ever, and hopefully, each year I will manage to meet this goal. One year I made the Top Ten Times list in EVERY event - both short course and long course. Don't think I will ever do it again, but I sure will try every year!

SWIM-MASTER

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Swimming News

SHORT COURSE NATIONALS - I am sure that I speak for most of the 2,328 swimmers that attended the Nationals in Palo Alto, CA held at Stanford University - WHAT A GREAT MEET! There were 890 women and 1,438 men with a total of 55 foreign swimmers entered. 196 teams were represented along with 16 countries. Many great performances were had by many swimmers. Carolyn Ferris-Johnson did a magnificent job as meet director and had lots of support from the Pacific Assn. Masters swimmers. With so many people and so many times, I will only print the top 8 or 10 when the meet results are received.....

SUCCESS STORY - Stanley Pude'll writes, "I am a 71 year-old Breaststroker, the other strokes, very bad. Last year I got 9th place in Ten Best Times 50 breast. First time since I started in 1972!" Congratulations, and nice to see you stick to it for all these years. Stanley wants to add a fifth stroke - the double arm back with breast stroke kick. He has done a 37 for a 50 but has no idea what others can do this stroke in. If you have a time for this stroke, he would like to hear from you. Write to 12 Rensselaer Rd., Trumbull, CT 06611.....

TAC-Y COACH MIKE STIPEK on the difference between a swimming workout and a swimming practice. Most of us who swim regularly put most of our emphasis on hard, exhaustive sets. Depending on

the season, a typical swim workout might include: a warm-up, a hard main set or series, some kicking, pulls and a warm-down. There is no doubt that all these things are important. There is, however, an important portion of swim practice that we tend to overlook. There isn't a locker room in the world that shouldn't have 8 x 11 cards with the printed message "PERFECT PRACTICE MAKE PERFECT". The only way to practice perfectly in a swimming workout is to do those things that make a tenth of a second difference here and there during a race. Take advantage during those long boring series on driving into and off the walls using the kind of turns you would want in a race, not the kink of turns you do in a swim workout. You get what you practice. Take advantage during one of your sets to practice a stroke drill. Set a specific portion of your swimming practice for stroke drills...practice them perfectly. Swimming a sloppy, lazy workout is a bad habit. Start a good habit your next workout by practicing perfectly.....

BRISBANE - THE WORLD MASTERS SWIM IN 88! - October 9-16, 1988 is the date, Chandler Swimming Complex is the place. The pool is a 10 lane 50 mtr pool with a 25 mtr training pool and a diving pool all under one roof. Ample seating for at least 5000 is available. Brisbane is the capital of Queensland, the highlight of Australia's Bicentennial, World Expo 88. It is a modern city with sub-tropical climate, near tropical islands and rain forests. Jetset Tours has some excellent packages which include first class accommodations. For more information write: Jetset Tours, GPO Box 2262, Brisbane, Qld. 4001 Australia

TRY THIS - The following workout comes to us from Hugh Moore. It's called an "I.M. Full House" and consists of 4 sets of 250 yards each for a total of 1000 yards. In set #1 do 100 fly, 75 back, 50 breast and 25 free. In set #2 do 75 fly, 50 back, 25 breast and 100 free as indicated:
 #1 - 100 fly, 75 back, 50 brst, 25 free
 #2 - 75 fly, 50 back, 25 brst, 100 free
 #3 - 50 fly, 25 back, 100 brst, 75 free
 #4 - 25 fly, 100 back, 75 brst, 50 free

Either assign a send-off or a rest period for each distance. Allow 30 sec to one min rest between each set of 250's. For sprint training all distances can be broken into 25's.....

CAN YOU DIG THAT BEAT? - If you are a pulse-taker, faithfully checking your pulse during workouts to find out if you're really swimming hard enough, take heart. You may not have to work as hard as you thought. The difference is an average 13 beats per min. The typical training range is 60 to 80% of your maximum heart rate (subtract your age from 220 for max). Now you can subtract your age plus 13 for swimmers. Why? Physiologists hypothesize that a swimmer's heart rate may be lower because of the body's horizontal position, which helps distribute blood more uniformly. Also, the cool water leads to a more rapid dissipation of heat, so the heart may not have to work as hard.

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LIFETIME VIGOROUS SWIMMING FOR FUN, SPORT AND HEALTH

SWIM CALENDAR

VOL XVI - No 5

JUNE 1987

JUN	6-7	LC - Jo May, 1405 Pine Chase, Houston, TX 77055
	6-7	LC - Fred Forshey, 7568 Rainflower Way, Columbia, MD 21046
	12-13	LC - Kerry O'Brien, 5517 Nebraska Dr., Concord, CA 94521
	13-14	LC - Gene Bunting Jr., OMS, 18476 Timbergrove Ct., Lake Oswego, OR 97034
	14	SCM- David Fletcher, 986 Beachview Dr., North Vancouver, B.C.
	14	LC - Curt Mosso, 2293 Featherhill Rd., Santa Barbara, CA 93108
	19-21	LC - Carrie Thornthwaite, 5412 Forest Acres Dr., Nashville, TN 37220
	20-21	LC - Deb Walker, 7223 Turnstone Rd., Sarasota, FL 34242
	20-21	LC - Ken Anson, 1116 E. Oklahoma, Enid, OK 73701
	20	1500 - Paul Blair, 9009 Reservoir Ct., Little Rock, AR 72207
	27	LC - Mishawaka Summerfest Swim, 600 E. Third St., Mishawaka, MI
	27	LC - Curt Mosso, 2293 Featherhill Rd., Santa Barbara, CA 93108
	27	SCM- Dave Brown, 2299 20th NW, Oak Harbor, WA 98277
	27-28	LC - George Jacobson, c/o 1st Colony Ath., 12503 Exchange Dr., Ste. 506, Stafford, TX
	27-28	LC - Judy Meyer, c/o MBATC, P.O. Box 3088, Boca Raton, FL 33431
	27-28	LC - Evie Wegienka, 1009 Cottonwood, Woodland, CA 95695
	27-28	Maracaibo, Venezuela - David Morrill, APDO. 60835, Caracas, Venezuela
	27-Jul	2 - US Nat. Sr. Olympics, 321 West Port Plaza Dr., Suite 202, St. Louis, MO 63146
	28	1500 - David Diehl, 12511 Littleton St., Silver Spring, MD 20906
	28	LC - Pat Liegey, 33 Arvine Park, Rochester, NY 14611
JUL	11	LC - Curt Mosso, 2293 Featherhill Rd., Santa Barbara, CA 93108
	11	LC - Woody Acton, 2237 Dawn Marie, Okla. City, OK 73112
	11-12	LC - Dot Donnelly, 5 Piggott Lane, Avon, CT 06001
	11-12	LC - Dixie Zone Champ., Dorothy Ressiguie, POB 7, Tar Heel, NC 28392
	11-12	LC - Will Worley, 1001 Village Dr., College Station, TX 77840
	18	LC - SMU - Jim Montgomery, 3503 Fairmont Ave., Dallas, TX 75219
	24-26	LC - Winnie Prall, 6735 Chesapeake Pt. NW, Atlanta, GA
	24-26	LC - Suzanne Rague, 263 West End Ave., #9C, New York, NY 10023
	25	LC - Paul Blair, 9009 Reservoir Ct., Little Rock, AR 72207
	25	LC - Dave Duncan, 102 Ivy St. Rt 3, Freeport, TX 77541
	25-26	LC - Mary Pohlman, R.R. 6, Carbondale, IL 62901
	25-26	LC - Alfonso Allen, 9812 Muirfield Dr., Upper Marlboro, MD 20772
	26	LC - Curt Mosso, 2293 Featherhill Rd., Santa Barbara, CA 93108
	31-Aug	1-2- Southern Regionals in St. Pete - Chris Truhol (813) 864-1140
	31 Aug	1-2- PMS LC - Carol Macpherson-Remen, 3805 Magnolia Dr., Palo Alto, CA 94306
AUG	2	LC - Alicia Coleman, 24 The Point, Coronado, CA 92118
	7-9	LC - Dr. Jim Miller, 1417 Johnston-Willis Dr., Richmond, VA 23235
	2-8-9	LC - Curt Mosso, 2293 Featherhill Rd., Santa Barbara, CA 93108
	8-9	LC - Joann Leilich, 4913 Kingston Dr., Annandale, VA 22003
	8-9	LC - Ed Danehy, 8391 Dixon Dr., Austin, TX 78745
	9	Manhattan Is. Marathon Swim, Drury Gallagher, 438 W 37 St., Suite 5H, NY, NY 10018
	16	LC - Suzanne Rague, 263 West End Ave. #9C, New York, NY 10023
	21-24	USMS LC NATIONALS - Del M. Hanson, WMS, PO Box 7148, The Woodlands, TX 77387

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