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30.09
Review of the sports

30.09.1
Archery

At archery, the LAOOC was charged with converting a public park with an existing recreational archery range into an Olympic venue that would accommodate a record 109 archers from 35 countries, 478 staff and volunteers and temporary bleacher seating for 4,000 spectators. Long Beach's El Dorado Park provided a beautiful setting for the four days of Olympic competition, but there were no existing structures that could be adapted to provide office space and support operations for venue staff and Fédération Internationale de Tir à l'Arc (FITA) officials as well as working space for journalists and eating facilities for staff and spectators. Therefore, 27 tents and 12 trailers were assembled at the site.

El Dorado Park was built in 1972 and its archery range is unique to Southern California. The 275-meter-wide competition range saw two major events in 1983—the United States Archery Championships and the XXXIInd World Target Archery Championships, and was more than adequate in size to play host to the Olympic Games.

Construction of the temporary Olympic facilities was begun 28 May 1984 by a local contractor. Work was completed on time on 7 August 1984, with only last-minute details like flower planting taking place the last two days. The LAOOC provided on-site supervision and pre-construction planning.

Competition for 47 women and 62 men began 8 August and Olympic records were set at every distance. Darrell Pace of the United States, the 1976 Olympic gold medalist, dominated the men's competition by shooting FITA rounds of 1,317 and 1,299 to post an Olympic record total of 2,616. Teammate Rich McKinney followed with a 2,564 total, just edging out Japan's Hiroshi Yamamoto who posted a 2,563. Korea's Hyang-Soon Seo earned the gold medal for the women with an Olympic record total 2,568, including a second FITA round of 1,293. Lingjuan Li of China took home the silver medal, scoring a 2,559, and Korea's Jin-Ho Kim won the bronze medal with a 2,555.



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15 Scientific precision is the key element for modern competitors in the ancient sport of archery.

16 El Dorado Park is colorfully dressed for use as the archery venue during the Games.

Sports Administration and Competition Management

Field of play

The athletes found a nearly perfectly measured field sporting 22 men's targets and 16 women's targets. Although a tolerance for a Small amount of error in measuring the field is allowed by FITA, the Olympic archery range at El Dorado was well within those allowances. A survey of the range showed the measurements were within ± 1 centimeter at 90 meters and less at the shorter distances. Lanes were provided every six meters with two targets per lane, allowing comfortable spacing for the athletes. Lanes were painted three days before the event with a striping device which lined the field with floor striping paint. The paint lasted throughout the entire event with little fading due to foot traffic or watering of the field, and only the shooting line and television lines needed a second painting. Three lines were painted behind the shooting line at a 90-degree angle to the target lanes. These formed the television lane and the waiting lane. The television lane was two meters wide and lined in yellow and the athletes' waiting lane was painted in white, two meters behind the television lane.

Southern California's hot summer weather necessitated regular watering of the field. A staggered watering system was used: the front half of the field was watered when the targets were placed at the long distances while the back of the field was watered when the targets were at the close distances. The result was a lush, green competition field. Shade for the competitors, scorers and judges also became important. Canopy-type sun shelters measuring 8 feet by 8 feet by 7 feet in height were a tremendous improvement over more commonly used umbrellas. There were 48 connected shelter sections (27 for the men and 21 for the women) providing ample shade for the athletes at the field of play. One section on the women's side was used for the announcer's booth. Every other section of the open-sided shelters was roofed with a 70 percent screened material to allow air flow and reduce heat inside the shelter. The valance on the south side of the shelter was positioned at an angle of approximately 45 degrees. Several 10-foot by 10-foot tents provided more than adequate space for 20 to 25 scorers. These tents were placed 40 meters from the shooting line and 20 meters off the field (measured from the last shooting lane). Tents were also positioned 20 meters from the last shooting lane and 20 meters from the shooting line for use at the shorter distances. This enabled the scorers to monitor competition and meant a shorter walk to meet the archers at the target for scoring. Two 20-foot by 20-foot tents were set up north of the scoreboards for the computer scoring which was located on each side of the field.

The Saunders Archery Company of the United States made the target mats specially to 52-inch-diameter specification, slightly larger in diameter than the standard 48-inch (122-centimeter) targets. The flat-faced target mats were covered in green burlap to match the target standards and tied with sisal cord (rather than polyethylene) with all knots on the back of the mat. With 3 1,392 arrows shot during the competition, no pass-throughs and only three bounce-outs occurred, two on one mat which was quickly replaced. The mats were extra-firm and did not oval or lose concentricity. The Björn Bengtson Archery Company of Sweden supplied the target faces at no cost to the LAOOC.

A key service to the athletes during both the practice sessions and actual competition was an equipment repair trailer. From 14 July to 6 August the trailer was stationed at the practice field. On the evening of 6 August it was easily moved to the athlete preparation area. The Hoyt/Easton Company provided all of the equipment and personnel to operate this service at no cost to the Organizing Committee. The LAOOC rented the trailer, but all internal trailer modifications were provided by Hoyt/Easton. Nearly every competitor utilized the equipment repair service and the trailer was equipped to handle any problem from straightening arrows to repairing shoes. This service was valuable in that there was not a single equipment failure on the first day of competition and only three equipment failures during the entire tournament. Generally, two to three times that number of equipment failures and subsequent delays are experienced at major events of this type.

A practice range with 46 targets was ready for use on 12 July. Targets were placed at the following distances:

- 9 targets at 90 meters
- 9 targets at 70 meters
- 6 targets at 60 meters
- 10 targets at 50 meters
- 10 targets at 30 meters
- 2 targets at 10 meters

The practice field faced northeast, so as to conform to the unwritten rule that the practice range should not face in the same direction as the competition field. The entire practice field was enclosed with an 8-foot chain-link fence to prevent vandalism and keep out wandering park pedestrians. Chairs and tables were provided to form a small rest area; box lunches were made available to the athletes. Because of the many trees located throughout El Dorado Park, only one extra shade structure was provided for the soft



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drink and water dispensers. The location provided adequate shade for all athletes. Practice was open to all competitors from 0900 to 1800 hours and the use of an open practice schedule worked well. Services at the practice field included equipment repair and athlete information. A transportation liaison person and a general troubleshooter were also available.

Sports administration and competition management

Hosting the World Championship event at El Dorado Park in October, 1983, helped the LAOOC to identify and train 85 percent of the staff and volunteers who would work the Olympic Games. Very little attrition occurred either before or during the Games, contributing to a smooth running venue. LAOOC staff at the venue numbered 370. An additional 65

17 Shade structures provide good rest areas for competitors during the competition.

18 A special tent is present for the director of shooting and other support officials.



Darrell Pace (USA), left, examines his gold medal performance in the archery competition. LPI/84 Photo by Paul Kennedy

Darrell Pace (USA), à gauche, observe la performance qui lui vaudra la médaille d'or de tir à l'arc. Photo LPI/84-Paul Kennedy



Archery/Tir à l'arc

Officials

Federation Internationale de Tir a l'Arc (FITA)

President/president
 Secretary General / secretaire-general /
 Technical Delegates / delegues techniques

Francesco Gnechi-Ruscone (ITA)
 Giuseppe Cinnirella (ITA)
 Don Lovo (CAN)
 Knud Andresen (DEN)

LAOOC Administrative Staff/Personnel Administratif de LAOOC

Commissioner/commissaire
 Competition Director/
 directeur du competition
 Venue Manager/manager de la venue

Jim Easton
 Don Rabska
 Marty Swanson

Participants/Participants

Women
 Femmes

Competitors
 Competiteurs

Countries
 Pays

Men
 Hommes

Competitors
 Competiteurs

Countries
 Pays

47

24

62

25

Legend/Legende



new Olympic record/nouveau record olympique
 new world record/nouveau record mondial

El Dorado Park,
 Long Beach (4,500)







Men/Ranking After 288 Arrows
Aug. 11

Hombres/classement apres 288 fleches
11 Aout

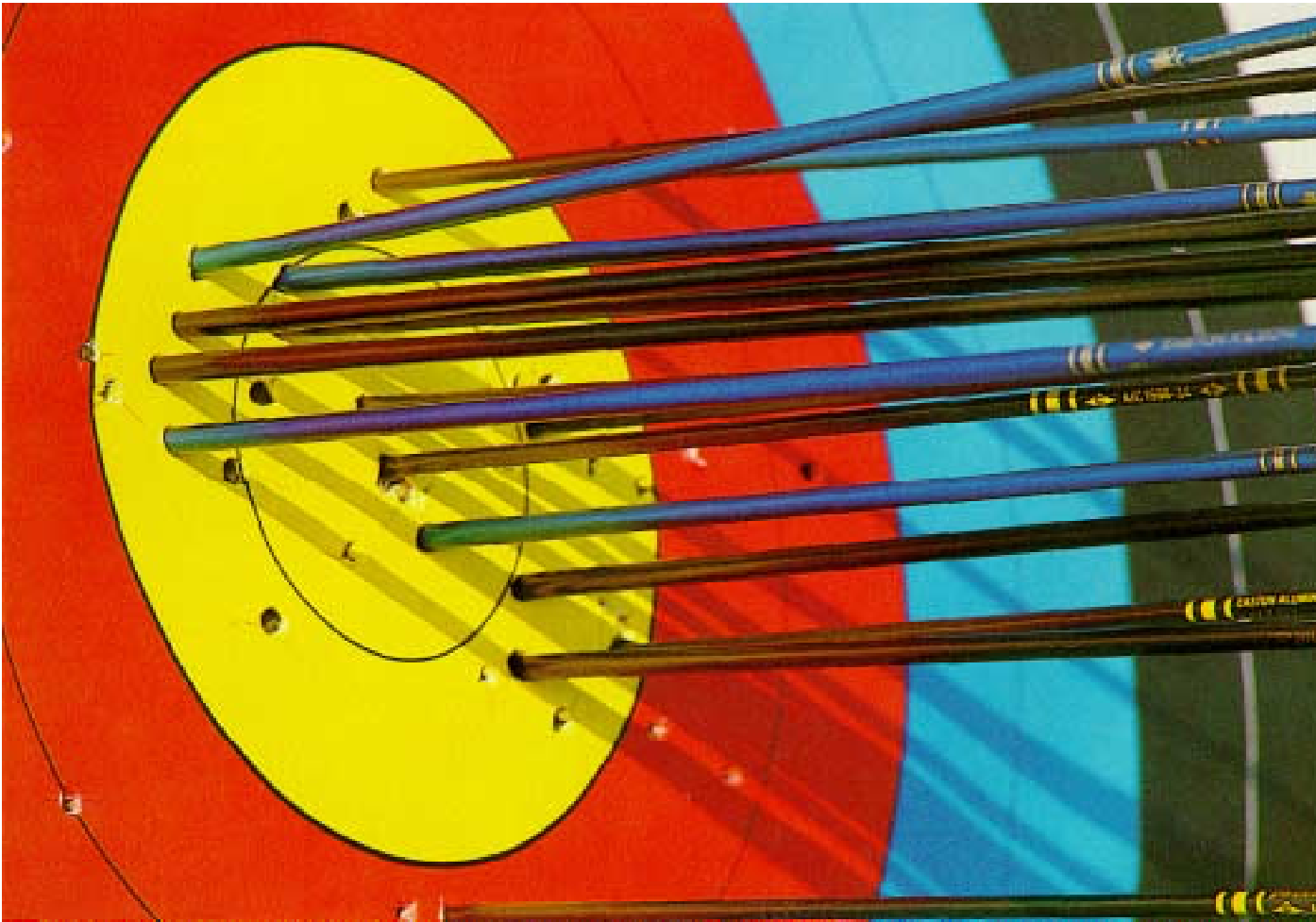
RANK RANG	NAME	CTRY	90 R	70 R	50 R	30 R	TOTAL R	GRAND TOTAL
1	Pace, Darrell	USA	FITA 1 310 1 331 1 326 1 350 3 1317 1 FITA 2 291 2 322 5 334 1 352 1 1299 1 1+ 2 601 1 653 1 660 1 702 1	2616	🏆			
2	Mc Kinney, Richard	USA	310 2 318 6 320 4 347 6 1295 2 276 17 324 4 319 9 350 3 1269 5 586 3 642 5 639 5 697 3	2564				
3	Yamamoto, Hiroshi	JPN	297 5 316 10 313 13 350 2 1276 3 290 4 3292 322 7 346 9 1287 3 587 2 645 4 635 7 696 4	2563				
4	Matsushita, Takayoshi	JPN	278 14 327 2 324 2 335 39 1264 7 293 1 320 7 327 3 348 4 1288 2 571 5 647 3 651 2 683 24	2552				
5	Poikolainen, Tomi	FIN	291 7 323 3 317 9 344 17 1275 4 273 22 328 3 318 11 344 16 1263 7 564 7 651 2 635 8 688 14	2538				
6	Bjerendal, Goran	SWE	302 3 315 13 313 14 345 16 1275 5 276 16 305 26 323 6 343 20 1247 12 578 4 620 16 636 6 688 16	2522				
7	Vervinck, Mamix	BEL	280 13 321 4 314 11 345 14 1260 9 279 11 320 8 313 17 347 7 1259 9 559 10 641 7 627 15 692 7	2519				
8	Koo, Ja-Chung	KOR	254 42 309 22 317 10 346 9 1226 28 282 7 318 10 329 2 345 13 1274 4 536 27 627 13 646 3 691 8	2500				
9	Wittig, Harry	FRG	273 22 314 14 306 29 338 36 1231 21 285 5 319 9 315 15 347 6 1266 6 558 11 633 9 621 21 685 21	2497				
10	Gamreiter, Armin	FRG	276 20 311 18 305 30 343 19 1235 17 264 29 331 1 320 8 344 17 1259 8 540 24 642 6 625 18 687 17	2494				
11	Choi, Won-Tae	KOR	272 24 313 16 318 6 342 22 1245 13 284 6 305 27 310 22 346 12 1245 16 556 12 618 20 628 12 688 13	2490				
12	Meyers, Glenn	USA	277 19 316 9 310 16 343 21 1246 12 276 15 314 18 312 19 340 31 1242 17 553 17 630 12 622 20 683 25	2488				
13	Reniers, Martinus	HOL	277 18 303 35 319 5 348 4 1247 11 273 21 313 20 307 29 346 11 1239 18 550 20 616 24 626 16 694 5	2486				
	De Koning, Patrick	BEL	294 6 319 5 308 23 343 20 1264 8 259 34 317 12 307 30 339 32 1222 27 553 15 636 8 615 25 682 26	2486				
	Kahlert, Dettlef	FRG	273 23 309 21 313 12 335 41 1230 23 280 10 315 15 317 12 344 19 1256 10 553 16 624 14 630 11 679 32	2486				
16	Rukimin, Suradi	INA	298 4 314 15 310 17 346 11 1268 6 257 38 317 13 300 37 343 21 1217 28 555 13 631 10 610 29 689 11	2485				
	Douis, Gerard	FRA	274 21 304 32 309 22 347 7 1234 20 277 13 309 23 318 10 347 8 1251 11 551 18 613 30 627 14 694 6	2485				
18	Yong, Shan	CHN	285 10 317 7 303 33 346 8 1251 10 279 12 301 35 312 18 340 27 1232 21 564 8 618 18 615 26 686 20	2483				
19	Bjerendal, Gert	SWE	289 8 307 27 300 40 339 34 1235 18 277 14 308 25 311 20 350 2 1246 14 566 6 615 26 611 28 689 10	2481				
20	Hardmeier, Thomas	SUI	265 35 305 30 318 8 342 24 1230 22 276 18 315 14 309 26 346 10 1246 15 541 23 620 15 627 13 688 15	2476				
21	Hallard, Steven	GBR	268 30 316 8 309 20 342 25 1235 16 270 23 314 16 316 14 338 36 1238 20 538 25 630 11 625 17 680 28	2473				
22	Jeon, In-Su	KOR	268 29 301 38 308 25 351 1 1228 25 254 42 313 19 324 5 348 5 1239 19 522 38 614 27 632 9 699 2	2467				
23	Skyttesaeter, Jan Roger	NOR	281 12 308 23 300 39 345 15 1234 19 270 24 310 21 309 23 342 24 1231 23 551 19 618 17 609 31 687 18	2465				
24	Braun, Andre	LUX	272 25 307 28 307 28 341 28 1227 27 281 8 301 36 314 16 336 40 1232 22 553 14 608 33 621 22 677 34	2459				
25	Ferrari, Giancarlo	ITA	266 32 302 37 318 7 341 30 1227 26 264 30 304 29 326 4 334 44 1228 25 530 29 606 35 644 4 675 37	2455				
26	Van Den Bossche, Willy	BEL	283 11 309 20 309 21 344 18 1245 15 280 9 29942 29939 33150 1209 33 563 9 60832 60834 67538	2454				
27	Quick, Tommy	SWE	255 41 315 11 303 34 346 12 1219 30 274 19 301 34 309 25 344 18 1228 24 529 31 616 22 612 27 690 9	2447				
28	Laasonen, Kyosti	FIN	265 36 315 12 310 18 339 33 1229 24 259 35 302 33 309 27 344 15 1214 30 524 37 617 21 619 23 683 23	2443				

RANK RANG	NAME	CTRY	90 R	70 R	50 R	30 R	TOTAL R	GRAND TOTAL
29	Di Buo', Ilario	ITA	252 45 296 42 296 44 346 13 1190 41 291 3 314 17 299 40 343 22 1247 13 543 21 610 31 595 42 689 12	2437				
30	Gillam, Peter	GBR	269 27 288 49 320 3 346 10 1223 29 260 31 301 39 311 21 340 25 1212 32 529 33 589 45 631 10 686 19	2435				
31	Blake, Christopher	AUS	289 9 307 24 309 19 340 31 1245 14 253 43 301 40 299 38 336 38 1189 40 542 22 608 34 608 33 676 35	2434				
32	Rohla, Jean-Claude	LUX	265 33 312 17 302 36 338 37 1217 32 255 41 304 28 305 34 340 29 1204 35 520 39 616 23 607 35 678 33	2421				
33	Gonzalez, Adolfo	MEX	261 39 300 39 301 37 342 27 1204 37 267 26 303 31 304 35 340 28 1214 31 52834 60338 60538 68227	2418				
34	Lightfoot, Dale	NZL	261 38 292 44 303 32 335 40 1191 39 266 27 321 6 305 32 334 43 1226 26 527 35 613 29 608 32 669 45	2417				
35	Loyen, Philippe	FRA	265 34 307 26 307 27 327 50 1206 36 265 28 308 24 309 24 323 56 1205 34 530 30 615 25 616 24 650 53	2411				
36	Zhang, Zheng	CHN	277 17 289 48 302 35 339 35 1207 35 257 39 296 45 308 28 337 37 1193 37 534 28 585 47 610 30 676 36	2405				
37	Rubio, Manuel	ESP	271 26 300 40 310 15 332 46 1213 33 246 48 318 11 271 55 342 23 1177 43 517 52 618 19 581 46 674 39	2390				
38	Feng, Zemin	CHN	246 50 305 31 283 51 341 29 1175 46 273 20 309 22 300 36 332 47 1214 29 519 40 614 28 583 45 673 42	2389				
	Cresto, Gilles	MON	268 28 306 29 300 41 335 43 1209 34 244 51 292 47 305 33 339 33 1180 41 512 44 598 41 605 39 674 41	2389				
40	Erer, Kemal	TUR	253 43 303 34 299 43 335 42 1190 40 249 47 297 43 306 31 344 14 1196 38 50248 60039 60536 67931	2386				
41	Echavarria, Juan	COL	238 54 296 41 294 45 348 5 1176 45 26825 30138 29841 33639 1203 36 506 47 597 42 592 43 684 22	2379				
42	Tu, Chih-Chen	TPE	250 47 281 55 308 26 342 26 1181 44 257 37 303 30 297 42 338 34 1195 39 50746 58448 60537 68029	2376				
43	Pandiangan, Donald D.	INA	277 16 307 25 301 38 333 45 1218 31 252 44 291 48 295 43 318 58 1156 52 529 32 598 40 596 40 651 52	2374				
44	Emilio, Renato Dutra	BRA	252 44 284 52 308 24 340 32 1184 42 242 52 281 53 316 13 340 30 1179 42 494 49 565 53 624 19 680 30	2363				
45	Avci, Iuet	TUR	263 37 289 47 299 42 342 23 1193 38 251 45 299 41 286 49 332 48 1168 46 514 43 588 46 585 44 674 40	2361				
46	Amalekajom, Amphol	THA	268 31 309 19 279 55 326 53 1182 43 257 40 296 44 272 54 335 41 1160 50 52536 60536 55154 66150	2342				
47	Prieto, Jose	ESP	259 40 290 46 281 54 337 38 1167 50 259 33 288 50 294 45 333 45 1174 45 518 41 578 50 575 48 670 43	2341				
48	Priestman, Richard	GBR	278 15 294 43 270 57 330 49 1172 48 259 32 384 52 290 47 334 42 1167 47 537 26 578 49 560 53 664 48	2339				
49	Syrjala, Markku	FIN	249 48 303 33 282 52 323 55 1157 51 241 53 301 37 294 44 340 26 1176 44 490 50 604 37 576 47 663 49	2333				
50	Piyapattra, Wachera	THA	251 46 302 36 288 47 327 51 1168 49 25836 28851 28648 32852 1160 51 509 45 590 44 574 49 655 51	2328				
51	Santos, Rui	POR	248 49 287 50 304 31 334 44 1173 47 240 54 290 49 291 46 330 51 1151 53 488 51 577 51 595 41 664 47	2324				
52	Shimamura, Ichiro	JPN	23455 29045 29246 33248 1148 52 245 49 302 32 279 52 338 35 1164 49 479 54 592 43 571 51 670 44	2312				
53	Dorji, Thinley	BHU	233 56 282 54 287 48 332 47 1134 53 251 46 294 46 286 50 333 46 1164 48 484 53 576 52 573 50 665 46	2298				
54	Yuen, Steve	HKG	241 52 280 56 284 50 324 54 1129 54 245 50 262 58 264 57 323 55 1094 55 48652542585485564754	2223				
55	Pelzang, Hawang	BHU	240 53 284 53 268 58 326 52 1118 56 232 55 274 57 279 51 318 57 1103 54 47255 55856 54756 64456	2221				
56	Lo, Kam-Kuen	HKG	241 51 286 51 282 53 312 59 1121 55 215 56 274 56 258 59 325 53 1072 57 45656 56054 54057 63758	2193				

RANK RANG	NAME	CTRY	90	R	70	R	50	R	50	R	TOTAL	R	GRAND TOTAL
57	Fok, Ming-Shan	HKG	199	59	279	57	285	49	314	58	1077	57	
			200	58	279	54	278	53	331	49	1088	56	
			399	58	558	55	563	52	645	55			2165
58	Rivera, Ismael	PUR	203	57	275	58	260	60	304	61	1042	58	
			205	57	277	55	262	58	303	60	1047	58	
			408	57	552	57	522	58	607	61			2089
59	Hamaid, Mansour	SAU	200	58	239	61	268	59	317	56	1024	59	
			198	59	202	62	250	60	324	54	974	61	
			398	59	441	61	518	61	641	57			1998
60	Tshering, Lhendup	BHU	198	60	246	60	270	56	307	60	1021	60	
			190	60	226	61	250	61	312	59	976	60	
			388	60	470	60	520	59	619	59			1997
61	Al-Basam, Faisal	SAU	167	61	257	59	253	61	314	57	991	61	
			182	61	261	59	265	56	294	61	1002	59	
			349	61	518	59	518	60	608	60			1993
62	Jawdat, Yousef	SAU	152	62	203	62	232	62	293	62	880	62	
			123	62	236	60	191	62	286	62	836	62	
			275	62	439	62	423	62	579	62			1716

**Men/Top 15 Summary
Aug.11**
**Hombres/ les 15 premiers sommaire
11 Aout**

RANK RANG	NAME	CTRY	CUMULATIVE/CUMILATIF			
			TOTAL	HITS	10	9
1	Pace, Darrell	USA	2616	288	125	102
2	Mc Kinney, Richard	USA	2564	288	104	101
3	Yamamoto, Hiroshi	JPN	2563	288	102	103
4	Matsushia, Takayoshi	JPN	2552	288	105	89
5	Poikolainen, Tomi	FIN	2538	288	89	109
6	Bjerendal, Goran	SWE	2522	288	83	106
7	Vervinck, Mamix	BEL	2519	288	81	112
8	Koo, Ja-Chung	KOR	2500	288	92	90
9	Wittig, Harry	FRG	2497	288	89	93
10	Gamreiter, Armin	FRG	2494	288	88	94
11	Choi, Won-Tae	KOR	2490	288	86	90
12	Meyers, Glenn	USA	2488	287	84	95
13	Reniers, Martinus	HOL	2486	288	89	89
	De Koning, Patrick	BEL	2486	288	82	95
	Kahlert, Detlef	FRG	2486	288	73	114



19 Archers hit the "bull's-eye" with remarkable frequency.

19

maintenance, food concessionaire, security and city employees were contracted. Contractors working solely in the public area numbered 34 to bring the venue total to 469.

Several 10-foot by 44-foot trailers housed the FITA offices, judges and officials, the commissioner and his staff and the venue operations offices. Tents were more suitable for such services as spectator first aid, the athlete lounge and public information. FITA officials were assigned their own trailer and judges and officials were accommodated separately. Officials for the event consisted of seven judges, three members of the Jury of Appeals, two Technical Delegates and three Directors of Shooting as well as the President and Secretary-General of FITA. A 12-foot by 12-foot elevated platform was built for the Director of Shooting, with a roof with an 18-inch valance for sunshade. The announcers (English and French) and sound engineer were moved from behind the Director of Shooting platform into a separate area to reduce confusion and unnecessary activity around the platform during competition.

Scorers worked in tented areas adjacent to the competition field. Results management was also provided with tents in this area. For the first time at an Olympic Games, compilation of scores was done on a small computer. Scorers manually marked the official FITA scorecards and then immediately transferred the data to computer cards. The cards were

then fed into a Chatsworth Data System card reader which read the individual arrow scores and fed the data to the computer. The system had been tried at the World Championships in 1983 but the computer program had to be completely rewritten before the Games. However, the scoring system worked almost flawlessly during the Olympics and results were produced approximately six minutes following each scoring end. Results were hand-carried to the nearby scoreboard operators after each end of arrows was shot. The computer was also used to pre-print the computer cards in advance of the competition. While the scoring system worked well, a problem existed in coordinating the on-site computer-generated results with Ernst & Whinney's results distribution system. Venue management pinpointed the problem as a lack of pre-Games test runs and a non-sport-specific program. The result was an extremely slow production of results for distribution. After the first computer printout of results was received, it took four hours for the results system operators to re-enter and duplicate hard copy on the first day of competition. The results system was then moved from the scoring tents to the management compound in an attempt to speed up production. By the end of the Games, the turn-around time had been gradually reduced to approximately two hours, but before then venue management had decided to reproduce copies of the on-site computer printout for quick distribution to the media and other groups which needed immediate results.

LAOOC/Archery staff totals

Access Control	21
Awards Ceremonies	1
Competition	149
Concessions	2
Finance	4
Food Services	6
Internal Audit	1
Language Services	18
Material Logistics	5
Medical Services	16
Press Operations	13
Public Information	3
Security	2
Technology	16
Telecommunications	17
TV/Film	1
Ticketing	3
Transportation	38
Venue Management	54
Totals	370*

*Totals do not reflect contracted staff

Summary

Perhaps the biggest single contribution to the success of the 1984 Olympic archery competition was the XXXIInd World Archery Championships 18-22 October 1983. The event was part of the LAOOC's plan to utilize many Olympic sites during 1983 to help venue staff prepare for the Games and was the only world championship to be hosted by the LAOOC in 1983. The event identified a number of problems that were later resolved and also introduced world-class archery to the

Southern California community and media. Games staff and volunteers were identified; scoring systems were tested; facilities at El Dorado Park were examined; and physical venue needs like office space were recognized. As a result, the entire computer program for the scoring system was modified; security needs were identified and preliminary architecture plans were revised to add more office space. Most importantly, world-class athletes took part in a successful competition where 11 of 12 world records were broken and the twelfth record tied.

When the Olympic Games began, the archery venue was ready and the weather was perfect. The temporary facilities (tents and trailers) proved adequate for a variety of uses from shaded areas for athletes to office space for FITA officials. An innovative equipment repair trailer that could be moved from the practice field to the competition range saw heavy use and Olympic archery officials highly recommended such an operation for future archery championships. The competition field was measured to near-perfection and target equipment provided by Saunders Archery Company and the Björn Bengtson Archery Company of Sweden was excellent.

Though the computer scoring system worked almost flawlessly, the results management system was extremely slow. A better understanding of archery and more pre-Games planning by the results management company could have speeded up the official post-competition results distribution. Unofficial results were available within minutes after the end of competition.