

# Ariel Dynamics Media Library

<b>Code</b>	<b>adi-vid-01062</b>
<b>Title</b>	ESPN Show 3
<b>Subtitle</b>	Al Oerter, four Gold Medal Winner
<b>Description</b>	...
<b>Subject</b>	Performance Analysis
<b>Hierarchical Subject</b>	
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<b>Label</b>	Approved

## Audio transcription

#	Time	Spoken text
0.	00:00	With all eggs to Olympic legs, these belong to perhaps the greatest Olympian in history.
1.	00:15	My name is Al Order.
2.	00:16	I've been in computers for about 22 years now, and I think I've always realized that there would be the potential for the computer in athletics.
3.	00:24	We've gone through micro computers and many computers, and now that we're developing computer chips with sophisticated computing capabilities,
4.	00:32	we're going to see a large introduction in the sport.
5.	00:35	Welcome to Future Sports.
6.	00:38	With us now on Future Sports, a man who really made history with a discus and still setting the pace.
7.	00:44	Al Order, 45-year-old discus genius who still is a threat to everybody in the world.
8.	00:49	And Dr. Gideon Ariel.
9.	00:51	I'm delighted to have you on the show, obviously, but why is a guy 45 years old throwing a discus and why you're still beating most of the people in the world?
10.	00:59	I've yet to figure that out, but I enjoy it.
11.	01:03	I've always had a philosophy that you don't have to go out and win everything.
12.	01:07	As long as you enjoy it and you work hard, you know, the capability evolves, and that normally takes care of the winning kind of thing.
13.	01:13	I absolutely enjoy throwing. I'm going to be throwing for another 25 years.
14.	01:17	Gideon, 45 years of age, I've alluded to that.
15.	01:20	And yet, a couple of years ago, we had a combination of three of the best throws.
16.	01:24	Are we beginning to shrink chronological and biological age, or are we beginning to expand the difference?
17.	01:29	Our body going by our genetic capability.
18.	01:32	And apparently, at the age of 45, you don't have to say, I'm old man.
19.	01:36	That's why I'm concerned.
20.	01:38	All right now, it's probably 25, 26 years old, biologically.
21.	01:42	What kind of logically? That's for the birds.
22.	01:45	Did you know about Al before you started going by?

**# Time****Spoken text**

23. 01:48 Al was my idol. In fact, in the kibbutin, I had his picture above my bed every morning.
24. 01:54 I would worship. I mean, thousands years ago, they would kill me.
25. 01:58 They would say that I worship idols.
26. 02:00 He was my idol for many, many years, from 1955.
27. 02:04 All right, Al, it's time for you.
28. 02:06 That's a long time ago.
29. 02:08 You're getting older, you're getting younger.
30. 02:10 Al, you have a scientific interest. Where'd that come from?
31. 02:14 Well, I've been in computers now for whole 20, 21 years or something like that.
32. 02:18 When I started back into competition, I had an eight-year lay-off from 1968 through 76.
33. 02:24 And when I started back, I thought it might as well learn as much as I can about the throw.
34. 02:28 And I hooked up with Gideon immediately to find out exactly what I was doing wrong.
35. 02:33 Why not take advantage of all of the innovations that occurred through that eight-year span?
36. 02:38 And I think the computer analysis of the technique in my event was absolutely the most important thing.
37. 02:43 I could determine, for the first time, what coaches were trying to tell me.
38. 02:47 I could see quantitatively where I was accelerating, decelerating, all these kinds of things.
39. 02:51 And then going through that analysis, I was able then to launch into my kind of newfound career,
40. 02:56 with new enthusiasm and knowing what I was doing.
41. 02:59 Al, to understand the future, we have to understand the past.
42. 03:02 Unfortunately or fortunately, you're the past and the present and the future.
43. 03:06 Now, where are we going to go with this game?
44. 03:09 I think the computer analysis will continue.
45. 03:12 I think we'll get into very shortly an area where athletes will be able to almost step inside themselves.
46. 03:19 We'll have computers simulating what the perfect throw will be.
47. 03:22 And throwers will be, in effect, able to enter their own image created by film, by computers.
48. 03:28 And as they execute the throw, if an arm goes out too far, a head tilts to something,
49. 03:32 there'll be an alarm go off to say you're changing.
50. 03:35 So feedback systems and computers are going to be very important.
51. 03:38 You see that getting?
52. 03:39 Well, hologram is the thing of the future.
53. 03:41 And I tell you, I'm learning from Mal, more than he learned from me,
54. 03:44 but he's the head of the game all the time because he really talked about the future.
55. 03:48 We're talking about holography now, where you will have the ideal model that you actually will see.
56. 03:53 You cannot touch it because you see it, but you cannot touch it.
57. 03:56 But you can put your body right in it.
58. 03:58 And every time you depart from efficiency, either you will have some kind of feedback in alarm system
59. 04:04 or I don't know, maybe in Germany they'll give you a 220.
60. 04:07 I know, there are things that are a little frightening about the entire environment
61. 04:12 of computer introduction at the sport because computers, you know, ten years ago,

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62.	04:16	I couldn't lift computers that, you know, right now I hold in the palm of my hand very easily.
63.	04:20	And why not in the future be able to implant computers within an athlete?
64.	04:25	And through telemetry, exercise that athlete because the thing that prevents a runner from going very fast is his brain.
65.	04:31	And through telemetry, you can override that brain feedback that says,
66.	04:36	I think I'm going too fast wrong to see.
67.	04:38	You can override that with computer implants that are stimulating various muscles.
68.	04:41	That's frightening because then we're into robotics.
69.	04:44	Well, is that going to be legal? You see a lot of changes taking place in the Olympic rules, et cetera.
70.	04:49	Oh, the technology is here today.
71.	04:52	Certainly there's going to have to be a way of combating it because then you'll have coaches up in the stands
72.	04:56	to communicate with telemetry straight stations activating their athletes.
73.	05:00	There obviously has to be a stop for that.
74.	05:02	How you do it is through some kind of body scan.
75.	05:04	I 100% agree with you because we are here dealing with a balance between art and science.
76.	05:09	And when one taking over, you have a situation which is really a non-athletics anymore.
77.	05:15	We should use science to amplify our mind in a way where you can perform the best,
78.	05:23	but it should be the non-invasive matters.
79.	05:25	We should never implant chips in our bed.
80.	05:27	But we should never take drugs.
81.	05:29	We should do it as natural as possible to achieve our maximum.
82.	05:32	Just enhance an athlete's capability to exercise more efficiently,
83.	05:37	to be more productive in his training environment. That's what we want.
84.	05:41	On an earlier show, Al Order was here. He was our guest and he had an unusual training throw.
85.	05:45	Get in. What can you tell us about it?
86.	05:47	Vic, while we were setting up our Kamalas during our visit,
87.	05:51	he unloaded these tools during training.
88.	05:54	Although the troll landed on a hill, we were able to calculate
89.	05:59	that the tools would have travel approximately 244 feet.
90.	06:04	That's farther than the world record, 244 feet.
91.	06:08	This guy is going to be 47 years old in 1984.
92.	06:13	That's the year of the Olympics.
93.	06:15	So look at the distance source. Al Order is ready for Olympic gold.