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## Scientist blows the whistle

To learn which sport the youngster should spend his high school and college years mastering



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### Scientist Blows the Whistle

In 1984, Dr. Gideon Ariel, a former Israeli Olympic team discus thrower and a two-time PhD holder in computer science and exercise science, uses advanced technology to determine the best sport for a promising 14-year-old athlete. Ariel uses a variety of tests, including bone measurements, reflex tests, high-speed photography, genetic examinations, muscle strength tests, jumping ability measurements, and cardiovascular capacity and flexibility checks. The results suggest the boy could excel in cycling, swimming, football, tennis, or discus throwing.

Ariel criticizes the slow adoption of technology in athletic training in the US, citing the example of shot put where East Europeans have outperformed Americans due to their more effective technique. Ariel's method involves creating a "cartoon" of the athlete's action using ultra-high-speed movie footage, which allows for the measurement of acceleration and force of all body parts at any given point in the action.

Despite his groundbreaking work, Ariel notes that many experienced coaches are resistant to change. Ariel has moved his Computerized Biomechanical Analysis lab to Southern California, where he plans to test Olympic athletes from around the world and offer services to improve performance in various sports.

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Below find a reprint of the 2 relevant pages of the article "Scientist blows the whistle" in "Winnipeg Free Press":

# Scientist blows the whistle on coaches

