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# Rotarians Learn Benefits Of Biomechanical Analysis

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Human Performance

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### Rotarians Learn Benefits Of Biomechanical Analysis

Dr. Gideon Ariel, an expert in Biomechanical analysis, demonstrated to the Rotary Club how businesses and industries can benefit from the same computerized techniques used by Olympic athletes. Ariel, a former Israeli Olympian and current professor of computerized science in the field of physical education at the University of Massachusetts, explained how his techniques of evaluating human movement can improve the efficiency of workers on a production line as effectively as they can increase the performance of a world championship athlete.

Preliminary studies have been conducted to determine if fields such as dentistry and production assembly can apply his computerized analysis for increased performance. Ariel's biomechanical analysis is based primarily on the plotting of points electronically for the range of motion of any body part. The computer measures the time and force applied by the body at millisecond intervals, determining precisely how a movement must be made for optimum results.

Most of the work done in Ariel's laboratory has focused on athletic performance, but the research has already begun to have applications beyond the playing field. For instance, Ariel has used his research to design a superior shoe for specialized sporting events and everyday wear.

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