

## Plenary Speech by Professor K. Jothi Dayanandan

### Emerging Trends of Physical Education and Sports Science

In this fast-growing technological world, physical education and sports science is inevitable and is an emerging field all over the world. The sports sciences have gone to the extent that the latest technologies in sports and physical education are emerging every day. Sports Engineering Association has also emerged largely, sports engineers design and engineer sports equipment and facilities, training equipment, sports clothing, rehabilitation amenities used by sportspersons, orthopedic appliances, and high-performance human-machine systems to help improve the performance of athletes. The fast-growing new technologies, everything from compression garments, and dry fit attire to the manufacturing of shoes provide advantages to athletes who can run faster and also without undue fatigue. Making a fair game is another issue for the officials. The usage of synthetic drugs and identifying the cheat is becoming too expensive.



The usage of nanotechnology in the construction of sports equipment has seen drastic changes in the performance of sportsmen. Equipment designing, lab experiments, and testing, field testing, functioning with leading bodies, and its influence on athletes' performance are emerging.

Human potentialities are growing fast and human limits and world records will be broken. It is only a short time that is left to witness the performance of athletes in all sports. Even as a spectator this technological growth help understand the game better and watch more games.

Thus trends in physical education and sports science are going to be endless. There has been natural evolution that has been great for sports.

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