

ABSTRACT SUBMISSION



-For invited speaker only

Fabrics Make Records: Bioengineering in Sportswear

Kanji Kajiwara

Shinshu University

*Presenter's email: kajiwara@shinshu-u.ac.jp

ABSTRACT (NO MORE THAN 500 WORDS:)

Olympic Games are a showcase for new materials. In each Olympic Game, new materials have demonstrated a high performance and assisted to yield new world records. Taking an example of swimming suits, a development history of materials and designs will be shown. The bioengineering has been a main tool for this development, but in some cases the development went too far and eventually the use of the developed materials/sporting tools was banned as a tool doping.

What is the boundary to step into doping in sportswear? Although many arguments were done, no clear answer is available for the decision of the boundary. However, new materials are being developed and applied to sportswear with more elaborated designs. Emerging new materials will be presented and their potential will be discussed.