

Call for Papers: The Science of Tenpin Bowling

Contributed by Joe Slowinski
Monday, 26 March 2007
Last Updated Tuesday, 27 March 2007

In an effort to generate sport science knowledge of tenpin bowling, I have launched an online journal/newsletter. The Science of Tenpin Bowling will present articles on sport science from authors around the world who are creating new understandings of bowling as a sport. Click to learn more and read the initial call for papers. Please pass the word.

The Science of Tenpin Bowling is a journal newsletter dedicated to uncovering truths and improving our understanding of the sport of tenpin bowling. This e-mail is an official announcement of the establishment of a periodic newsletter focusing on the science of tenpin bowling. Elite tenpin bowling is a sport requiring complex motion to generate specific and alter axis rotation, axis tilt, revolutions, ball speed and loft distances. And, you might actually need a Master's degree in physics to truly understand ball motion. So, let's all agree, tenpin bowling is understudied and we need more information to promote bowling as a sport. Collectively, we can change this.

This newsletter/journal will be a place for original research on tenpin bowling and an important contribution to the sport. So, I need your help. You can be a contributor of original research. And, please help me in getting the word out about this initiative. Simply forward this e-mail to as many involved in studying tenpin bowling or involved in sport science with an interest in bowling. My goal is that this group would become a small but dedicated group of individuals focusing on improving the understanding of the science of bowling. Who knows... Maybe one day we will have a World Congress on the Science of Bowling. If you are interested in serving as a reviewer please forward me a bio as well as a short statement on why you want to serve as an editorial reviewer. Original research, meta analyses, theory, etc. are welcome... This is an initiative based on my passion for facilitating a better understanding of our sport. To all of you who share the same passion, let's start a knowledge revolution!

CALL FOR PAPERS

The Science of Tenpin Bowling (TSTP)

Rationale: Bowling remains a sport that is not studied. Most sports (swimming, track & field, golf, tennis) have a well established base of knowledge on biomechanics, nutrition, fitness, etc. Unfortunately, little is really known in tenpin bowling. The time is right for us to move forward. Most importantly, the credibility of bowling is suffering significantly. We need to move forward and promote a scholarship of bowling. Thus, I am facilitating this initiative.

Overview: In the spirit of increasing the credibility of tenpin bowling, I have an overwhelming desire to help spread the knowledge of bowling

Topics

> All sport science topics including:

- o Sport Medicine = prevention and treatment of bowling-specific injuries
- o Sport psychology and bowling = effectiveness of the mental side of the sport (improving self-efficacy, etc.)
- o Nutrition = impact of specific nutrition on performance
- o Physiology and Fitness of bowling = impact of specific training methods on performance o Coaching methods = bowling development methods and effectiveness
- o Motor Learning = How do bowlers learn the movements of complex tasks? o Biomechanics and Technique of Bowling / Human Movements Study
- o Science of the Bowling Ball (ball motion impact of RG, Diff, MB, MB Diff, Surface, etc.)
- o Science of the bowling environment (impact of humidity, friction, oil volume, etc.)
- o Talent Identification = Are there specific things (anthropometry, mental, etc.) that will help federations identify bowling-specific?
- o Other science topics related to bowling

- o Coach Development Models = How do coaches most effectively progress from a beginning to elite world-class coach?

Some Research Ideas

- > What is the anthropometry of elite bowling?
- > What are the specific ball reaction changes brought about by altering the axis of rotation, axis tilt, revolutions, speed and loft?
- > What are the most effective psychological training techniques that produce improved focus?
- > What is the ideal fitness training program for elite bowling?
- > What is the exact energy system for elite bowling (i.e., ATP/CP, LA, Oxidative)?
- > What strength training program has the most effectiveness for the above energy system and fitness development?
- > What are the connection between fatigue and repeatability in elite and non-elite bowling?> What are the biomechanical motions of elite bowlers? What training methods help to achieve these motions?
- > How do we promote self-efficacy in elite bowling?
- > What are the most effective coach development programs?

Format

Online Journal and PDF newsletter/journal (the site will be coming in the near future)

Document Submission Format

Electronic Submission Only

Preferred format APA Style but others accepted

MS Word (1” margins all around)If appropriate, include methodology, results, etc.

Graphs, Charts, etc in JPG as attachmentsInclude contact information and professional affiliation on a cover sheet

Submission

Send via e-mail to Joe Slowinski at joseph_slowinski@yahoo.com