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Sports-Science-Tech September 12th, 2024

Co-organisers:

Polish Academy of Sciences Scientific Center in Paris
Institute of Oceanology of Polish Academy of Sciences

The “Sports-Science-Tech” conference, held on September 12, 2024, at the Polish Academy of Sciences Scientific Center in Paris, brought together experts to discuss how science and technology are transforming the world of sports. The event highlighted the intersection of sports with IT solutions, governance, psychology, and biomedical engineering, showcasing innovations and research that are shaping the future of athletic performance and management.

The conference began with welcoming remarks from Magdalena Sajdak, PhD, Director of the Polish Academy of Sciences, Prof. Tymon Zieliński from the Institute of Oceanology, and Jakub Blatkiewicz of the Economic Section at the Polish Embassy in Paris. They emphasized the value of scientific research and technology in enhancing both athletic performance and the organizational aspects of sports.

Keynote speech was delivered by Oskar Kaczmarczyk, Product Manager for VolleyStation Pro and a key figure in Polish volleyball scouting and data analysis. Mr. Kaczmarczyk’s speech, entitled “Polish IT solutions for the development of volleyball”, included data collection, the role of human input, and the use of artificial intelligence in data analysis by VolleyStation.

Keynote speech was followed by **One-to-One Discussion: Research for Sports Governance & Finance**. In this session, Grzegorz Botwina, PhD of the Polish Center for Olympic Studies and Prof. Tymon Zieliński discussed the role of research in sports governance and finance. They emphasized the need for greater transparency in sports institutions’ funding and expenditure. Dr. Botwin also highlighted the lack of established rules and funding pathways for specific tasks in sports, which varies across different sports and influences athletes’ achievements.

In a presentation entitled **“Introduction to Sport and Exercise Psychology”** Jean Fournier from Paris Nanterre University introduced the field of sport and exercise psychology, outlining its significance in understanding athlete motivation, resilience, mental well-being, psychological aspects of sporting achievements, and the importance of cooperation with athletes’ parents. His talk underscored the mental aspects of performance, emphasizing that psychological support is essential for achieving peak performance and managing the pressures of competitive sports.

Moderated by Jean Fournier, the panel **“Implementation of Scientific Research / Case Studies”** explored how scientific research is being practically applied in sports. The speakers – **Szymon Łukasik, PhD** (AGH University, NASK National Research Institute), **Prof. Piotr Foltyński** (Nałęcz Institute of Biocybernetics and Biomedical Engineering), **Mateusz Delikat** (QLAC) – unanimously stressed the importance of raising awareness of the impact of sports on health and the significance of setting good examples, among others, for young people. They also provided examples of accessories and tools that can benefit both athletes and society.

The conference concluded with a networking session, providing attendees with the opportunity to connect and exchange ideas. This session encouraged collaboration among sports scientists, engineers, psychologists, and professionals, fostering connections that could lead to future interdisciplinary projects.

The “Sports-Science-Tech” conference highlighted the powerful role of science and technology in advancing the sports industry. Through discussions on IT systems, sports psychology, governance, and biomedical engineering, the event showcased how scientific research is driving the evolution of sports at all levels, from athlete well-being to team performance and sports organization management.

The Embassy of the Republic of Poland in Paris partnered with the event. The conference received patronage from the Polish Ministry of Sport and Tourism, the Polish Olympic Committee, and the Polish Paralympic Committee.

September 12th, 2024
09:30-14:00

SPORTS SCIENCE TECH

How science shapes
the future of sports?

Polish Academy of Sciences
Scientific Center in Paris

74 rue Lauriston
75116 Paris

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Sports-Science-Tech

How science shapes the future of sports?

September 12th, 2024
9:30-14:00

9:30 Opening remarks

- Magdalena Sajdak, PhD – Polish Academy of Sciences Scientific Center in Paris
- Prof. Tymon Zieliński – Institute of Oceanology, Polish Academy of Sciences
- Jakub Blatkiewicz – Economic Section, Polish Embassy in Paris

9:45 Keynote speech

Polish IT solutions for the development of volleyball

Oskar Kaczmarczyk – Event Coordinator and VolleyStation Pro Product Manager Polish Scouting and Data Analysis Developer Member of the Conceptual Team for the Development of VolleyStation IT Systems

10:15 One-to-one discussion

Research for sports governance & finance

- Grzegorz Botwina, PhD – Polish Center for Olympic Studies and Research
- Prof. Tymon Zieliński – Institute of Oceanology, Polish Academy of Sciences

11:20 Guest speaker

Introduction to sport and exercise psychology

Jean Fournier – Paris Nanterre University

11:40 Implementation of scientific research / case studies

- Szymon Łukasik, PhD – AGH University, NASK National Research Institute
- Prof. Piotr Foltyński – Nalecz Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences
- Mateusz Delikat – QLAC

Moderator:

Jean Fournier – Paris Nanterre University

12:25 Networking session

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2023