

# Seminar: Biomedical Engineering in Sports Science

Date : 7 October 2013 (Monday)

Time : 14:30 – 17:00

Venue : SME One, G/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong

Language: English

Quota: 50

## Introduction:

Biomedical engineering has shown its usefulness in various sports science fields such as sports injury prevention, athletics performance optimization, sports rehabilitation and sports traumatology, etc. Athletes, trainers and therapists benefit from the advancement and invention of various medical devices and technologies. Collaboration with engineers, researchers, healthcare and medical experts is thus crucial for the development of innovative and effective technologies which enhance the performance of athletic training, competition, injury prevention and rehabilitation. At the same time, the advancement would also trigger regulatory and safety concerns on the medical and healthcare engineering applications in sports.

This seminar aims to keep audience abreast of the development of biomedical engineering in sports science. The coordination of biological technologies and sports physiology would be discussed and the application of 3D printing in sports field would also be introduced. Regulatory concerns and considerations in medical applications for sports would also be highlighted.

## Time

## Rundown

14:30 Opening Remarks

14:45 Athletes' Need in Enhancing Sports Performance and Recovery

*Presented by Dr Raymond SO*

*Director, Elite Training Science and Technology Division, Hong Kong Sports Institute*

15:15 Innovative Technology in Sports Medicine

*Presented by Dr. Patrick Yung*

*Deputy Director, The Hong Kong Jockey Club Sports Medicine & Health Sciences Centre*

15:45 Break

16:00 How Technology Improve Soccer Training

*Presented by Dr. Del WONG*

*Associate Professor, Technological and Higher Education Institute of Hong Kong*

16:30 From 3D Printing to Regulatory For Medical Application in Sports

*Presented by Mr Bryan SO*

*Senior Consultant, Biomedical Engineering Unit, Hong Kong Productivity Council*

Note: The organizer reserves the right to change the contents, venue and / or time as necessary and without prior notice.

### Project Applicant



### Implementing Agent

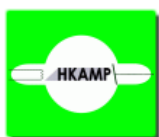


### Funding Organization



### Supporting Organizations

For a full list of supporting organizations, please refer to the seminar website.



CPD certificate will be offered to members of the Hong Kong Institution of Engineers (HKIE). A maximum of 3 CPD hours would be received for this seminar.

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## Speakers Introduction



**Dr. Raymond SO** is currently the Director of Elite Training Science and Technology of the Hong Kong Sports Institute. His major responsibility in Hong Kong Sports Institute is to coordinate sports science, sports medicine and physical training supports to the Hong Kong elite athletes for the purpose of performance enhancement. In recent years, his research emphasis was on enhancing the performance of elite cyclists. His research areas include muscle fatigue pattern in different cycling techniques, energy utilization during different types of cycling competition and recovery modalities. Dr So has also served the Hong Kong Association of Sports Medicine and Sports Science.



**Dr. Patrick YUNG** is now a leader in the field of orthopaedic sports medicine, being board members of several influential local & international organizations on sport medicine & arthroscopy surgery, like the Asian Federation of Sports Medicine, and the Hong Kong Association of Sports Medicine & Sports Science, and the Asia Pacific Orthopaedic Society of Sports Medicine. He is a keen researcher and educator, leading a team of researchers in the Chinese University of Hong Kong and working for the advance in sport medicine & arthroscopy surgery. He is also the Medical Consultant for the Hong Kong Sports Institute, taking care of the elite athletes of Hong Kong Team for years.



**Dr. Del WONG** is Associate Professor at THEI. He completed his doctoral study in Exercise Physiology at the Faculty of Medicine, Norwegian University of Science and Technology. He was the fitness coach for athletes at high levels including medalists of Olympic Games and World Championship. Dr. Wong specializes in the sport-specific fitness preparation and sport physiology. In 2012, he received the Outstanding Young Investigator Award from National Strength and Conditioning Association (USA). He is serving the editorial boards of international journals. He is also the consultant of sport science for the Sheffield United Football Club in UK.



**Mr. Bryan SO** is the Senior Consultant of the Biomedical Engineering Unit in the Automation Service Division of the Hong Kong Productivity Council (HKPC), and also the Executive Deputy Secretary General of Asian Harmonization Working Party (AHWP), focus on advanced manufacturing technologies, product development technologies, medical device development and regulatory affairs and quality management system.

# Enrolment Form

Seminar: Biomedical Engineering in Sports Science		For registration:
Date	7 October 2013 (Monday)	Please fill in the below information and fax to (852) 2788 6338 or email to <a href="mailto:crystalchui@hkpc.org">crystalchui@hkpc.org</a> by 4 Oct 2013.
Time	14:30 – 17:00	
Venue	SME One, G/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Hong Kong	
Fee	Free of Charge	
Quota	50	<b>For enquiries, please contact:</b>
Name: (Prof/Ir/Dr/Mr/Ms/Mrs)* *delete where appropriate		Ms Crystal CHUI Trainee Consultant, Biomedical Engineering Unit, Automation Service Division, Hong Kong Productivity Council Tel. no.: 2788 6028 Email: <a href="mailto:crystalchui@hkpc.org">crystalchui@hkpc.org</a> OR Mr Bryan SO Senior Consultant, Biomedical Engineering Unit, Automation Service Division, Hong Kong Productivity Council Tel. no.: 2788 5548 Email: <a href="mailto:bryanso@hkpc.org">bryanso@hkpc.org</a>
First Name	Last Name	
Organization:		
Position:		
Member from Supporting Organizations: (Yes/No)* *delete where appropriate		
Please specify Name of Supporting Organization		
Email (Required for registration confirmation):		
Office Phone No.:	Mobile No.:	
Fax No.:		
Address:		
<b>Declaration:</b>		
I declare that all information provided in this enrolment form and the attached documents are, to the best of my knowledge, accurate and complete.		
I have <u>read and accepted</u> all the terms and conditions of the "Important Note" in this enrolment form.		
Applicant's Signature :		Date:

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4. HKPC reserves the right to change the contents, venue and / or time as necessary

### Project Applicant



### Implementing Agent



### Funding Organization



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