

2015 **i-ORT** Symposium

International **O**rthopaedic **R**ehabilitation **T**echnology



Who should attend?

- Orthopaedic Surgeons
- Rehabilitation Physicians
- Biomedical Engineers
- Allied Health Professionals
- Rehabilitation Therapists
- Orthopedic and Rehabilitation Nurses
- Regional Leaders
- Funding agents - governmental/venture capitalists
- Industries CEO, scientific directors
- Government officials in related discipline

Date:

9 October 2015 (Fri)

Venue:

**Prince of Wales Hospital,
HKSAR**

Registration Fee :

Free of Charge

For any further information, please contact:



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Organizer :



Department of Orthopaedics and Traumatology,
The Chinese University of Hong Kong



Department of Orthopaedics
and Traumatology,
Prince of Wales Hospital

Message from Organizing Committee

What is this?

1. The first ever platform created to BRIDGING the gap between orthopaedic surgeon and other professional groups in rehabilitation
2. The first ever platform to facilitate the exchanges amongst professional groups and industries

What will be the expected achievable?

1. To launch a CONSORTIUM in ORT to maintain the momentum
2. To facilitate the groups of collaborators to continue the development of incubator projects
3. To maintain a dedicated web site for communication

Venue: Kai Chong Tong

Time	Topics	Speaker
09:00-09:10	Symposium Introduction	Prof. KM Chan , Prof Jack Cheng
09:10-09:40	Plenary Keynote Lecture: Orthopaedic Rehabilitation Technology: Helping Individuals Continue To Live Independently In The Community	Prof. Geoff FERNIE (UT)
Session 1 : How to Achieve a B-t-B Translation in Orthopaedic Rehabilitation Moderator: Prof Savio Woo and Prof Jack Cheng		
09:40-09:50	A New Era Of Technology Trend in Advancing Orthopaedic Rehabilitation	Prof KM Chan (CUHK)
09:50-10:00	How To Achieve A Successful Translation Research In Universities?	Prof. CK Cheng (DOF)
10:00-10:10	Introduction to Translational Medicine Platform in Shenzhen – SIAT experience	Prof. Ling Qin (CUHK)
10:10-10:20	Applying Biomedical Engineering to Orthopedic Rehabilitation – Examples in Deep Pressure Ulcers	Prof. Arthur Mak(CUHK)
10:20-10:40	Panel Discussion	All
Session 2: Exoskeleton / Powered Orthosis – The next generation of technology-orientated rehabilitation? Moderator: Prof. Wei-Hsin Liao and Prof. Arthur Mak		
10:40-10:50	The Story of “Hand of Hope”: Exoskeleton of Hand Robot	Prof. Raymond Tong (CUHK)
10:50-11:00	Wearable Robots for Paralyzed Patients	Prof. Wei-Hsin Liao (CUHK)
11:00-11:10	Clinical Application Of The Robot Assisted Mobility	Mr Alfred Li
11:10-11:25	Panel Discussion	All
11:25-11:45	Recorded Lecture: <i>Application of 3D technology in orthopaedic rehabilitation</i>	Dr Ke-rong Dai
11:45-12:00	Tea Break	
Session 3: 3D Printing in Orthopedic rehabilitation (Demand , Design , Development) Moderator: Dr. SW Law and Dr Anthony Kwok		
12:00-12:10	Application of CAD/CAM in Foot Orthotics	Ms. Peggy Chan (Kowloon Hospital)
12:10-12:20	3D Printing – Application In Medical Field	Mr Bryan So (HKPC)
12:20-12:30	3D Printing in Orthopedic Rehabilitation – Demand And Limitation	Mr. Tse Chi Yung (Centre for Orthopaedic Surgery)
12:30-12:40	Enable The Future: Open Hand Project - An Experience and Challenge in Hong Kong	Mr Mike Li (Hong Kong Maker Club)
12:40-13:00	Panel Discussion	All
Session 4: New Dimension of Work Rehabilitation and Work Disability Prevention - Simulation Rehabilitation Moderator: Prof LK Hung, Dr Grace Szeto and Dr Dan Tang		
13:00-13:10	Work Rehabilitation and Work disability: The M-O-R-E Project	Dr SW Law (PWH)
13:10-13:20	Filling the Gap of Work rehabilitation – Driving Stimulator in the Rehabilitation of Injured Professional Drivers	Dr Andy Cheng (PolyU)
13:20-13:30	Ergonomics Assessment and Management of Work-related Musculoskeletal Disorders	Dr Grace Szeto (PolyU)
13:30-13:45	Panel Discussion	All
13:45-14:25	Lunch	

AFTERNOON BREAKOUT SESSIONS (Conducted In English and/or Chinese)

Session 5 : Dynamic Rehabilitation Technology- Personalized and Cost-Effective Devices Moderator: Prof KM Chan & Dr Bin Cai		
		<i>Venue: Kai Chong Tong</i>
14:25-14:30	Introduction to Digital Orthopaedics Foundation	Ms. Huiying Hu (DOF)
14:30-14:40	A Portable Motion Capture System and its Clinical Application	Dr Shao Bai Wang (Innomotion)
14:40-14:50	Marker-Based 3D Motion Analysis – A Movement Screening Task for ACL Injury Risk	Dr Kam-Ming Mok (CUHK)
14:50-15:00	Design and Application of Personalized Navigation Template in Orthopaedics	Prof YZ Zhang (DOF)
15:00-15:10	Control of the Lateral Abdominal Muscles during Walking	Prof Hai HU (Shanghai Sixth People's Hospital)
15:10-15:20	Intelligent Exoskeleton Robot In Orthopaedic Rehabilitation Applications	Mr Jenssen Chang (Gaitech)
15:20-15:30	Clinical Transformation of Digital Orthopaedics and 3D Printing Technology in the Field of Orthopaedics and Orthotics	Prof Jinwu Wang (DOF)
15:20-15:50	Panel Discussion	All
Session 6: Latest development in Wheelchair Technology Moderator: Dr SW Law & Dr Bobby Ng		
		<i>Venue: Seminar Room 2-3</i>
14:30-14:40	Wheelchair Adapting to Benefit Social Life of Patients	Dr Dan Tang
14:40-14:50	Application of mobility technology in Community	Mr Walter Poon (SAHK)
14:50-15:00	Introducing the B-Free Chair	Mr Chin-Shun Yip (WheelchairPro)
14:50-15:10	New Generation Two-Wheels Balancing Wheelchair	Mr Arnold Wu (Single Person Transport Design (SPTD) Ltd)
15:10-15:20	Power wheelchair Simulation - WheelSim	Mr Victor Yeung(Ottobock)
15:20-15:45	Panel Discussion	All

More demonstration and display sessions will be held in the afternoon breakout session

Symposium chairman:

Prof. KM Chan

Scientific Committee Members:

Prof. Jack Cheng, Prof. LK Hung, Prof. Arthur Mak, Prof. Raymond Tong, Prof. Wei-Hsin Liao, Dr. Bobby Ng, Dr. SW Law, Dr. Anthony Kwok

Symposium Organizing Members:

SW Law, Anthony Kwok, Poyee Tong, Christy Lam, Kam Ho