

## VISITORS TO IBTec in 2017

### LITHUANIAN AMBASSADOR AND HONORARY CONSUL VISIT IBTec



**Professor Ahmed  
Al-Jumaily**

**Lithuanian  
Ambassador**

**Honorary Consul**

Lithuanian Ambassador HE Egidijus Meilusan & Honorary Consul Algis John Mak visited IBTec on Thursday 9 February. Professor Al-Jumaily introduced to them IBTec activities and took them on a tour around IBTec facilities and research projects. Possible collaborations with Lithuanian universities in the biomedical area have been discussed. The visitors were very impressed with the type and level of research and are keen to build research collaborations.

### PROFESSOR G. KIM PRISK VISITS IBTec



Professor G. Kim Prisk who is a Professor in the Departments of Medicine and Radiology at the University of California, San Diego gave a seminar on Monday 25 September to staff and students of IBTec. The title of his seminar was:

#### **“Taking Your Lungs To The Moon – And Maybe Mars:**

Planetary exploration by humans will inevitably pose significant physiological challenges, and the challenges to the lung associated with such journeys will be large.

Any trip to a distant extraterrestrial body will almost certainly be preceded by a series of extended sojourns on the Lunar surface. This talk will examine the challenges to the lung of such journeys.

#### **Bio**

Kim Prisk earned his PhD from the University of Otago in 1983 and has been at the University of California, San Diego ever since. He worked extensively on studies of the human lung in weightlessness in spaceflight on both the Space Shuttle and on the International Space Station. These studies were extended to studies on aerosol transport and deposition and the influence of gravity on these processes using parabolic flight. More recently he has worked on the development and use of functional imaging techniques using MRI to quantitatively measure both ventilation and perfusion in the human lung. Despite the low signal to noise environment for MRI in the lung, the techniques offer imaging without the constraints of radiation dose or the use of injected contrast agents, making them well-suited for studies that require repeated imaging. He is an associate editor for the Journal of Applied Physiology with an emphasis on pulmonary gas exchange and environmental physiology.



### **David Berke**

David received a B.Sc. and M.Sc. in Computer Science and Engineering from the Budapest University of Technology and Economics (BUTE), Hungary. In 2016, he started a PhD in Information Technology (IT) from BUTE in the area of endurance sports modelling with IT tools. In addition, he is a board member of Multimedia in Education Society in Hungary, an IT engineer at Ericsson, and a young instructor in Department of Networked Systems and Services from BUTE.

Between July and December 2017, he is participating in Erasmus Mundus Pacific Atlantic Network for Technical Higher Education and Research (PANTHER) programme, designed to foster knowledge exchange and collaboration between NZ, Australia and Europe. IBTec at Auckland University and Technology (AUT) is currently hosting him. His research involves statistical analysis on physiological and environmental parameters and conditions like fluid loss, thirst and dehydration. Besides using clustering techniques in sport, especially long distance running is also involved his PhD research. To date article resulting from IT part of this research appeared in the Journal of Applied Multimedia.