InnoCarnival 2022 - Webinar Timetable

Date	Time	Webinar Name	Code	Organisation	Speaker	Description
22/10/2022	10:45-11:45	Current outlook for nuclear power	22-SE-01	The Hong Kong Institution of Engineers	Richard Fung Representative of the HKIE Nuclear Division	There is a need to decarbonize in view of the climate change that will have a worldwide impact and there is a general world objective for carbon neutral by 2050 for developed countries. Nuclear power is a non-carbon emitting option that may help to meet the objective. With a basic introduction to nuclear power, the speaker will describe the current status and development of nuclear power in the world, its continuous growth in China and its potential opportunities for Hong Kong .
22/10/2022	12:30-13:00	Biomedical Engineer inside Hospitals	22-SE-02	Biomedical Engineering Division, The Hong Kong Institution of Engineers	Ir Cristina LEUNG	A brief introduction of Biomedical Engineering and will introduce the daily work of Biomedical Engineer inside hospital environment.
22/10/2022	14:15-14:45	How technology opens up new opportunities for our next generation?	22-SE-03	GloStudy	Fiona O, Founder and CEO of GloStudy	Choosing the right subjects or schools can be a challenging process, especially if you have many questions that need answers, like what program is best for me? What subjects or programs can best fit my career aspirations? There are so many options, and you must make the right decision. It's your future we are talking about here! In this talk, we're going to provide students and parents a comprehensive study in Hong Kong and study abroad information and how our technology help you find your dream education and plan a better career development.
22/10/2022	15:30-16:15	Through Einstein's Eyes	22-SE-04	The Hong Kong University of Science and Technology	Dr. CHEN Tian Wen	How does the world look like to someone who moves very close to the speed of light? Many people know that one should consider the effects of length contraction, time dilation etc. in Einstein's theory of Special Relativity. However, other weird optical effects under high speeds are usually being ignored. In this talk, we will show you this bizarre high-speed world simulated by computers, taken into account most of the optical and relativistic effects.
23/10/2022	10:00-11:00	COVID-19 Infection, from pandemic to endemic?	23-SE-01	The Hong Kong Academy of Sciences	Professor Ivan HUNG Fan-Ngai, Ru Chien and Helen Lieh Endowed Professor in Health Sciences Pedagogy, Professor of Medicine and Assistant Dean (Admissions), Chief of the Division of Infectious Diseases, Department of Medicine, LKS Faculty of Medicine, The University of Hong Kong, and Honorary Consultant in Queen Mary Hospital, Hong Kong.	COVID-19 Infection, from pandemic to endemic?
23/10/2022	11:30-12:15	City Hunt ---- Spatial Data Collecting and Analysis	23-SE-02	Smart City Consortium	Ms. Leung Wing-mui, Principal, Kowloon Sam Yuk Secondary School Mr. Chan Ka-lam, Head of History Department, Kowloon Sam Yuk Secondary School Ms. Lam Yuen Ching (STEM Coordinator, Kowloon Sam Yuk Secondary School)	With refer to the Hong Kong Smart City Blueprint 2.0, spatial data is a corestone in smart city development. Spatial data and Geographic Information System (GIS) can be extensively applied in smart mobility, smart living, smart environment with an aim to improve the citizen's quality of life as well as enhancing the city development in a sustainable and livable manner. This seminar would share our experience in introducing GIS as a new STEM programme into the secondary school. We shall demonstrate how to make use of GIS tools facilitating students to collect and analyze spatial data.

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23/10/2022	12:45-13:30	Carbon neutrality: Myths for the urbans	23-SE-03	VTC - Hong Kong Institute of Vocational Education (Sha Tin)	Ms WONG Pui Yan, Carmen Lecturer, Department of Health and Life Science IVE (Sha Tin)	As technology getting more advanced, it is no way to have ancient life to have an environmental life. Urban living must consume energy which releases carbon dioxide indirectly. Reduce our carbon footprint was a tradition way to reduce carbon emission. Flipping our mindset, how about compensating our carbon emission? How to achieve a carbon neutrality life?
23/10/2022	14:30-15:30	COVID-19 Vaccination in Young Children	23-SE-04	The Hong Kong Academy of Sciences	Dr Patrick Ip Pak-Keung Clinical Associate Professor Department of Paediatrics and Adolescent Medicine, School for Clinical Medicine, University of Hong Kong.	COVID-19 Vaccination in Young Children
24/10/2022	11:00-11:40	Integrating Emerging Technologies for a Smarter and Connected City	24-SE-01	The Hong Kong Institution of Engineers	Dennis Wong Senior Vice President, Emerging Technologies, Commercial Group, HKT Limited	Smart cities are about connecting things and people using technologies to improve efficiency, service delivery, and enhance quality of life. Data and technologies like 5G are helping us in many ways every day. Smart mobility helps travellers plan their trips effectively with live arrival time; Smart building provides more convenience, comfort and safety for occupants; Smart construction improves safety, efficiency and productivity in construction sites, etc. Join us to know and exchange ideas on how to leverage emerging technologies, 5G innovations and start-ups collaboration to make our city smarter.
24/10/2022	12:15-12:45	"A Look of Marine Facilities through the Physical Wave Model"	24-SE-02	Civil Engineering and Development Department	Iris YAM, Engineer Alan LO, Engineer	Port Works Division will use physical wave model to demonstrate some phenomena of waves and introduce various coastal facilities to tackle the threat due to waves under extreme weather conditions.
24/10/2022	13:45-14:25	The Development of 3D Digital Map in Hong Kong	24-SE-03	Lands Department	Mr FAN Ko Kwan Land Surveyor, Lands Department)	Compared with a plane map, a 3D digital map is more informative and precise, which is simply the replica of a real city built in a digital environment. It manifests the cityscape of Hong Kong with fine details. The LandsD has been progressively developing three 3D digital map products, namely, (i) the 3D Pedestrian Network; (ii) the 3D Visualisation Map showing exterior features of terrains, buildings and infrastructures; and (iii) the 3D Indoor Map.
24/10/2022	15:00-15:40	Build Safe • Build Smart	24-SE-04	Architectural Services Department	Mr TANG Ming-hei, Edwin Structural Engineer Ms TANG Wing-chi, Gloria Structural Engineer	To enhance site safety performance and efficiency of works supervision, Architectural Services Department has widely adopted innovative construction methods and smart technologies in public works contracts. Examples include Modular Integrated Construction (MiC), Smart safety Measures with Automation, Remote sensing and Telecommunication network Systems (SMARTS), and Digital Works Supervision System (DWSS).
24/10/2022	16:15-16:45	How to Use Digital Tools for English Language Learning	24-SE-05	Hong Kong Baptist University	Dr. Benjamin Luke Moorhouse, Assistant Professor, Department of Education Studies, HKBU	There is now a wide range of digital tools that primary and secondary school students can use to help them with their English language learning. There are tools that can be used to help with reading, writing, speaking, and listening, as well as vocabulary and grammar practice. Many of these tools are free or have free versions and are easy and simple to use. In this talk, Dr. Moorhouse will share a selection of the available digital tools that he feels are particularly useful. He will also suggest ways students can use them to help them with achieve their language learning goals and develop their self-directed learning skills. **The webinar is conducted in English**

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25/10/2022	11:00-12:00	COVID-19 immunity: Natural infection vs Vaccination vs Hybrid	25-SE-01	The Hong Kong Academy of Sciences	Professor David SC HUI, BBS, Chairman, Department of Medicine and Therapeutics, Stanley Ho Professor of Respiratory Medicine, Director, Stanley Ho Centre for Emerging Infectious Diseases, Director, SH Ho Sleep Apnoea Management Center, and Honorary Consultant Physician, Prince of Wales Hospital	COVID-19 immunity: Natural infection vs Vaccination vs Hybrid
25/10/2022	13:45-14:30	How to apply 3D printing as an Edutech in STEM education	25-SE-02	MakeOmnia Limited	Peggy Yuen, CEO	With 3D printing, students can create, design and print virtually anything, for example printing DNA sequences to learn about biology etc. Helping students understand and strengthen their abilities to apply knowledge and skills in STEM education. Besides, the principle behind 3D printing is simple, it is easy to arouse students' interest in the classroom and stimulate their creativity.
25/10/2022	15:00-16:00	Challenges and Opportunities of Solar Power in Hong Kong	25-SE-03	The Hong Kong Academy of Sciences	Professor Hin-Lap YIP, Professor, Department of Materials Science and Engineering, City University of Hong Kong, Elected Member of The Hong Kong Young Academy of Sciences	Hong Kong government has set an ambitious goal of reaching carbon neutrality by 2050 and a critical strategy in its overall planning is to increase the deployment of renewable solar power. In this talk, I will discuss how we can rely on technology innovation to tackle this great challenge, particularly we have identified printable, flexible, transparent, and color-tunable organic and perovskite solar cells as the most prominent PV technology to promote solar energy deployment in Hong Kong. Such a new generation solar cell technology can be integrated as tinted solar windows, façades, or curtains with buildings to generate significantly more solar electricity in an urban city, which usually has limited lands and rooftops for installing conventional silicon solar panels.
25/10/2022	16:30-17:30	Is our population protected against COVID-19? Insights from seroepidemiological studies	25-SE-04	The Hong Kong Academy of Sciences	Dr Kelvin To, the Department Chairperson and a Clinical Associate Professor of the Department of Microbiology, LKS Faculty of Medicine, the University of Hong Kong.	After the fifth wave of COVID-19 in early 2022, the majority of the Hong Kong population have either been infected by or immunized against SARS-CoV-2. An important question is whether the Hong Kong population is now protected against future waves of COVID-19. Our team has been conducting serosurveillance studies to monitor the level of protective immunity in our population. In this talk, I will present the data of our studies, and will discuss about the implications on public health policies.
26/10/2022	11:15-12:00	Top Gun: Artificial Intelligence	26-SE-01	Hong Kong Observatory	Dr Danice Ng, Scientific Officer, HKO	With the maturity of artificial intelligence (AI) theory and technology, the efficiency of analyzing meteorological big data has been greatly improved. How does the Hong Kong Observatory seize the opportunities of using AI? In this seminar, applications of AI to support and enhance aviation weather services will be introduced, including (1) automatic estimation of cloud cover, visibility and precipitation at the Hong Kong International Airport using high-resolution cameras; (2) identifying turbulence areas induced by atmospheric gravity waves from satellite images; (3) using satellite images and weather radar data to simulate large area "radar reflectivity".

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26/10/2022	14:00-14:45	How companies should embrace the innovation era – new international standards guide	26-SE-02	Institute of Systematic Innovation, Hong Kong	Dr. Victor Lo	Management innovation is new to most organizations, how do you know there is room for improvement? How can innovation enhance your organization's competitiveness? Let your organization be at the forefront of the world. How to create a suitable environment to make employees more confident to participate in innovation? The ISO 56002 innovation management standard came out this year (2019). The purpose is to provide the key points of innovation management and help enterprises to transform into "innovative" enterprises. Managers identify business opportunities, formulate plans, add risk assessments, and finally convert them into operational specifications, including operational assessments, quality control, and continuous improvement of the basic system. With the support of human and material resources, it has become the prototype of the management system.
26/10/2022	15:15-16:15	New Generation, New Learning Pattern: Play-to-learn	26-SE-03	UpDownLeft Right Limited	Sam Wong, Director of UDLR Ltd.	1. Life-long Learning on Sustainability Gamified app trained up students' "learning to learn" skills to better support their further achievement in traditional academic subjects via playful learning. We guarantee that accurate knowledge related to ESD & EE and learning goals such as attention and flexible thinking skills will be infused into the game's worldview, designs and mechanism. 2. Facilitate STEM Education on Inevitable New Tech Trends Blockchain technology is being adopted in more and more industries, ranging from FinTech to blockchain governmental applications. We hope to deepen student's understanding towards blockchain and cryptography technology via owning, securing, and applying their first NFT crypto-asset
27/10/2022	14:00-14:30	Application of Python in Scientific Education	27-SE-01	VTC - Hong Kong Institute of Vocational Education (Sha Tin)	Mr TONG Tsz Lun, Louis Assistant Lecturer Department of Health and Life Science IVE (Sha Tin)	Python is a widely used general-purpose, high level programming language. It was designed with an emphasis on code readability, and its syntax allows programmers to express their concepts in fewer lines of code. It has interfaces to many system calls and libraries, such as Matplotlib, Numpy, SciPy, which are for scientific use. Programming and big data are closely connected with our daily life. Students' logic can be enhanced via learning of Python programming. Python can be used to create small mini-game. It also can be fun for students.
27/10/2022	15:00-15:30	The routine of Medical Laboratory Technologist under the COVID-19 pandemic.	27-SE-02	VTC - Hong Kong Institute of Vocational Education (Sha Tin)	Ms CHIU Man Yin, Mandy Lecturer Department of Health and Life Science IVE (Sha Tin)	During COVID-19 pandemic, Medical Laboratory Technologists are striving to analyze clinical samples and have the result released as fast as possible. Let us have a glance over the routine of Medical Laboratory Technologists who work under tremendous pressure.
27/10/2022	16:00-16:45	Points to Rock	27-SE-03	The Hong Kong Institution of Engineers	Philip Wu Associate Director, Ground and Underground Engineering, Aurecon Hong Kong Limited Regine Tsui Civil Engineer, Ground and Underground Engineering, Aurecon Hong Kong Limited	Have you ever wondered how engineers build tunnels, which often pass through kilometres of rock, without collapsing? Our engineering geologists will share how they carry out geological mapping, and use innovative technology, e.g. laser scanning and 3D point clouds, to reduce engineering risks and to save time and cost. Join our webinar to learn: 1. How is the rock forming our ground like LEGO blocks? 2. What challenges do we face in rock excavation, such as tunnelling? 3. What is a 3D point cloud and how to make one? 4. How do geologists use point clouds to make excavated rock mass stable and safe?

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27/10/2022	10:00-10:45	HKBU Chinese Medicine On the Road to Fight the Pandemic — COVID-19 and Long-Covid Treatment and Prevention in TCM Perspective	27-SE-04	School of Chinese Medicine, Hong Kong Baptist University	Mr CHEUNG Chun Hoi, Assistant Professor of Practice, Clinical Division, School of Chinese Medicine	TCM efficacy in COVID-19 and Long-Covid treatment has been well recognized. The specker will share how TCM treat the COVID-19 and Long-COVID symptoms. The specker will also cover the daily health maintenance that promote soon recovery.
27/10/2022	11:15-12:15	The Battle of Hong Kong 1941: Using Interactive Maps to Tell Stories	27-SE-05	Hong Kong Baptist University	Dr. Kwong Chi Man, Associate Professor, Department of History, HKBU	The innovative spatial history project "Hong Kong 1941 " uses geographic information systems (GIS) to build a web map about the Battle of Hong Kong and a database of British military installations in Hong Kong during the Second World War. Combining the up-to-date digital technology and expertise in military history, this interactive map allows historians and other beneficiaries to move beyond the textual dimension and approach historical issues from a spatial perspective. Dr Kwong will introduce his online interactive map and share his insights on the future development of spatial history in Hong Kong.
28/10/2022	13:45-14:30	Design Thinking or/and TRIZ?	28-SE-01	Institute of Systematic Innovation, Hong Kong	David CK Kwan	Design Thinking and TRIZ (Theory of Inventive Problem Solving) are two very useful tools for innovation and people often struggle in choosing which one to learn and use. In this webinar, brief introduction of both tools and their comparison will be given.
28/10/2022	15:00-16:00	ISO 14064-1, GHG quantification	28-SE-02	The Hong Kong Institution of Engineers	Ir Dr LAU Sin Tong William Representative of the HKIE Mechanical, Marine, Naval Architecture & Chemical Division	Wildfire, super storms, heavy floods are here and there, and growing in severity, and all these climate changes root to global warming. In order to stop and at least slowing down the problem, we all have to work together to reduce the impact of greenhouse gases (GHG). Before we can reduce the impact and mitigate the problem, we need to understand and quantify our emissions. ISO 14064-1 is the most authority standard on the quantification of GHG. The standard was published 2006 and further updated in 2018. The Webinar is to brief on the requirements of the standard especially the 2018 version.
28/10/2022	16:30-17:00	Enhancing students' communication effectiveness with AI, decision science and applied psychology	28-SE-03	Datality Lab Limited	Mr. Roland Leung	Communication skill recognized as one of the most important skills of the 21st century still has no effective solution to cater to the challenge of current human one-on-one labour-intensive training. Most people have no access to this training and affect their school performance or future work opportunities. With Moodie.ai, we can make this training more accessible and affordable to everyone. It can mimic human observations on people's verbal and no-verbal expressions. Using composite AI, decision science modelling and applied psychology, it provides scores of assessments, comment and recommendation and coaches users with benchmarks and track records for progress of improvement.
29/10/2022	10:00-11:00	Bioinspired vision sensors	29-SE-01	The Hong Kong Academy of Sciences	Prof Yang CHAI, Associate Dean (Research) & Professor, Department of Applied Physics, Faculty of Science, The Hong Kong Polytechnic University; Elected member of the Hong Kong Young Academy of Sciences	Our human eye cannot only "see" the world, but also efficiently process the visual information. Inspired by biological characteristics, we use microelectronic devices to emulate these functions and realize more efficient vision sensors.