



太古樂賞 Swire Classic Insights

音樂·科學·科技 MUSIC, SCIENCE & TECHNOLOGY

音樂的科學 Science of Music 21-3-2015 Sat 8pm

音樂與科技 Music and Technology 27 & 28-3-2015 Fri & Sat 8pm

Grand Hall, Lee Shau Kee Lecture Centre Centennial Campus The University of Hong Kong

節目贊助 Sponsored by



グ梵志登 Jaap van Zweden 音樂總監 Music Director

音樂·科學·科技 — 音樂的科學

MUSIC, SCIENCE & TECHNOLOGY - SCIENCE OF MUSIC

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21-3-2015

音樂是如何運作的?長笛與小提琴的聲音為何有如此大的差異?聲波又是什麼?由香港管弦樂團演奏,指揮朴正鎬及特別嘉賓張英相教授與你拆解這些名曲背後的科學。

Have you ever wondered how music works? Why a flute sounds so different from a violin? What a soundwave is? Conductor Jung-Ho Pak and special guest Professor Paul Cheung join forces to explore the building-blocks of sound-a beginner's guide to the science of music. The HK Phil is on stage to illustrate each point with some great music.

WILLIAMS 威廉士:《星球大戰》主題曲

Star Wars main theme

OTT 奥特:《第一次交響樂旅程》

First Trip to the Symphony

BERLIOZ 白遼士:《幻想交響曲》

Symphonie fantastique

BEETHOVEN 貝多芬:第一交響曲

Symphony no. 1

STRAVINSKY 史特拉汶斯基:

《火鳥》組曲 Firebird Suite 《春之祭》 Rite of Spring

朴正鎬,指揮 P. 2

Jung-Ho Pak, conductor

張英相教授,特別嘉賓 P.3

This programme is organised with support from

Professor Paul Cheung, special guest



Special thanks to Ian Headley for Max/MSP programming of the software for several audio/visual applications in Music, Math and Physics.



請勿飲食 No eating or drinking



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演奏期間請保持安靜 Please keep noise to a minimum during the performance



請留待整首樂曲完結後 才報以掌聲鼓勵 Please reserve your applause until the end of the entire work



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27 & 28-3-2015

電腦懂得作曲?管弦樂團為網絡爆紅的小貓伴奏?指揮朴正鎬與你漫遊這個科技世代的創新管弦音樂,以全 新角度審視管弦音樂與高科技融合的未來發展!

If you think that an orchestra is too old-fashioned to be relevant in our modern world, then this concert is for you. Jung-Ho Pak explores how modern technology is influencing orchestral music. Can a computer compose music? Can a cat on Youtube be an orchestral soloist? The answer to both questions is yes! Join us for a fascinating look at the new directions orchestras are exploring in the 21st Century.

奧涅格:《太平洋231》 HONFGGFR

Pacific 231

RESPIGHI 雷史碧基:《羅馬之松》〔選段〕

Pines of Rome (excerpt)

PIECAITIS 皮耶柴提斯:《貓咪協奏曲》

Catcerto

De RITIS 德利蒂斯:《阿姆斯特丹》

Amsterdam

COPE 柯普:音樂智能實驗,第二樂章

Experiments in Musical Intelligence, movement 2

朴正鎬,指揮

Jung-Ho Pak, conductor

P. 2

P. 4

健油斯,主持

Anthony Paul De Ritis, presenter

Special thanks to Brian Dixon for the video production accompanying Honegger's Pacific 231, and for manning the laptop during the performance of De Ritis' Amsterdam; Howard Kenty for Max/MSP programming for De Ritis' Amsterdam; and Ian Headley for Max/MSP video programming accompanying David Cope's work.



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朴正鎬 JUNG-HO PAK

指揮 conductor

有「電能指揮」〔《科德角時報》〕之稱的朴正鎬,獲《紐約時報》讚許為「熱情洋溢」,《洛杉磯時報》亦盛讚其演演「真正令人注目」。現任美國麻省科德角交響樂團藝術總監兼指揮的朴正鎬,深信樂團必須「引發聽眾內心深處的共鳴」。

朴正鎬以其創新思維聞名古典樂壇,致力領導科德角樂團創造「充滿熱情的協同效應」。 他對音樂教育亦充滿熱忱, 全力拉近新一代與古典音樂 的距離。

除擔任科德角交響樂團總監 外,朴正鎬現時領導加州聖地 牙哥新星樂團及密芝根湖畔藝 術學校夏季樂團。此外,他亦 是紐哈芬交響樂團的名譽音樂 總監。

他對古典音樂極度狂熱,但他 日常聆聽的音樂不只於巴赫及 貝多芬。他的音樂興趣廣泛, 各種迴異風格都能引起他的興 趣。他最愛的作品是:「現時 在聽、在指揮的任何樂曲! The Cape Cod Times calls him the "Electricity Conductor." The New York Times says he "radiates enthusiasm," and the Los Angeles Times describes him as "a real grabber." Jung-Ho Pak, Artistic Director and Conductor of the Cape Cod Symphony Orchestra (CCSO), firmly believes the orchestra doesn't exist to simply play notes, but to "grab souls."

This desire to create a "passionate synergy" with the orchestra has earned him a reputation as a revolutionary thinker in the world of classical music. As a passionate advocate for arts in education, he is dedicated to making classical music more accessible to the younger generation.

In addition to his role with the CCSO, Pak currently leads Orchestra Nova San Diego, the World Youth Symphony Orchestra and the Summer Orchestras at the Interlochen Center for the Arts. He is also music director emeritus of the New Haven Symphony Orchestra.

He has been the music director at the San Diego Symphony, University of Southern California, San Francisco Conservatory of Music and the University of California, Berkeley. For eight years, he served as the principal conductor of the Emmy-nominated Disney Young Musicians Symphony Orchestra and has been on national television (60 Minutes, Disney Channel) and radio (NPR) for many years. As a guest conductor, he has travelled to Europe, the former Soviet Union (Russia), South America and Asia.

While he's crazy about the Classics, there's more than Bach and Beethoven on this conductor's iPod. His tastes are encompassing and eclectic. His favorite piece is "whatever I'm listening to or conducting that moment!"





張英相教授 PROFESSOR PAUL CHEUNG

特別嘉賓 special guest

張英相教授現任香港大學協理副校長,技術轉移處處長,接電子工程系教授、同監理交流好工程等的與實際。 東任知識交流好學、同監理公園士課程總監,並曾於1994至2000年任工程學院院方面建程來,他在信號處理可會, 生來,他在信號數對音樂有著 農厚的興趣。

Professor Paul Cheung is Associate Vice-President (Research) and concurrently Director of the Technology Transfer Office, Associate Director of the Knowledge Exchange Office of the University of Hong Kong. He is also a Professor in the Department of Electrical & Electronic Engineering and Programme Director of the Master of Science in E-Commerce and Internet Computing at the University. He was Dean of Engineering at the University from 1994-2000. Over the years, he teaches signal processing in the University. Professor Cheung has a strong interest in music.



偉迪斯 ANTHONY PAUL DE RITIS

主持 presenter

偉迪斯於美國加州大學柏克 於獲取音樂作曲博士學位 於1990年至1992年期間, 第1990年至1992年期間, 第1990年至1992年期間, 第1990年至時間, 第1990年出, 第1986年至1990 第1986年至1990 第1986年至1990 第1986年至1990 第1986年至1990 第1986年和, 第1986年至1990 第1986年和, 第1986年和, 第1986年, 第1986年, 第2002年東北大 第2002年東北大 第2003年在爾 第2003年在爾 第2003年在爾 第2003年在爾 於管專大 第4003年 第4003年 第4003年 第5003年 第6003年 第6003年

Described as a "genuinely American composer" by *Gramophone*, Anthony Paul De Ritis is Professor and Chair of the Music Department at Northeastern University in Boston; and is jointly appointed in the Entrepreneurship and Innovation Group in Northeastern's D'Amore-McKim School of Business. He has received performances nationally and internationally, including at the Weill Recital Hall at Carnegie Hall, Avery Fisher Hall at Lincoln Center, Harvard's Sanders Theatre, Yale's Woolsey Hall, Taipei's Zhong Shan Hall, Beijing's Yugong Yishan, Seoul's KT Art Hall, and UNESCO headquarters in Paris.

De Ritis completed his Ph.D. in Music Composition at the University of California, Berkeley. He received his M.M. in Electronic Music Composition from Ohio University under Mark Phillips (1990-1992) and his B.A. in Music with a concentration in Business Administration from Bucknell University, studying composition under William Duckworth, Jackson Hill and Kyle Gann; and philosophy with Richard Fleming (1986-1990). De Ritis also holds a Master's degree in Business Administration with an emphasis in high-tech from Northeastern University (2002). In 2006 De Ritis was named the Alumnus of the Year for the College of Fine Arts at Ohio University.

As a graduate student De Ritis contracted and managed 112 musicians for the American premiere of John Cage's *Ocean 1-95* with the Merce Cunningham Dance Company, and scored the music for the Macintosh computer game, *Step On It*, which won the 1997 MacWorld Arcade Game of the Year. He was the founder and lead developer of the Boston Symphony Orchestra Online Conservatory from 2002-2011, a collaboration between the Boston Symphony Orchestra and Northeastern University, which has been featured in the *New York Times*, the *Chronicle for Higher Education*, *Newsweek*, *Symphony* magazine and the *Boston Globe*.



* Full-time students, senior citizens aged 60 or above, people with disabilities and CSSA recipients (with quota; this discount cannot be used in conjunction with any other offers) 香港管弦樂團由香港特別行政區政府資助 The Hong Kong Philharmonic Orchestra is financially supported by the Government of the Hong Kong Special Administrative Region 香港管弦樂團為香港文化中心場地伙伴 The Hong Kong Philharmonic Orchestra is a Venue Partner of the Hong Kong Cultural Centre

香港管弦樂團

HONG KONG PHILHARMONIC ORCHESTRA



近年和港樂合作過的指揮家和 演奏家包括:阿殊堅納西、寧 峰、葛納、郎朗、余隆、李雲迪、 剛辭世的馬捷爾、安蘇菲·慕 達、王羽佳以及港樂前任音樂總 監艾度·迪華特等。

港樂積極推廣華裔作曲家的作 品,除了委約新作,更已灌錄 由作曲家譚盾和盛宗亮親自指 The Hong Kong Philharmonic Orchestra (HK Phil) has recently returned from an extremely successful five-country, seven-city tour of Europe, with concerts in London, Vienna, Zurich, Eindhoven, Birmingham, Berlin and Amsterdam. Most concerts were sold out, there were standing ovations, and the reviews were universally positive. The concert in Vienna's Musikverein was filmed for future broadcast on TV. With a history stretching back to 1895, when it was formed as the Sino-British Orchestra, the HK Phil was re-named in 1957 and became fully professional in 1974.

Thanks to significant subsidy from the Hong Kong Government and long-term funding from Principal Patron Swire, the Hong Kong Jockey Club and other supporters, the HK Phil now boasts a full-time annual schedule of classical music concerts, pops concerts, an extensive education programme, and collaborations for staged opera with Opera Hong Kong and the Hong Kong Arts Festival.

Conductors and soloists who have recently performed with the orchestra include Vladimir Ashkenazy, Ning Feng, Matthias Goerne, Lang Lang, Yu Long, Yundi Li, the late Lorin Maazel, Anne-Sophie Mutter, Yuja Wang and Edo de Waart, the HK Phil's previous Music Director.

The HK Phil promotes the work of Hong Kong and Chinese composers through an active commissioning programme, and has released recordings featuring





太古集團自2006年起成為港樂的首席贊助,也是本團歷來最大的企業贊助。太古集團透過支持港樂,致力推廣藝術活動,在藝術水平上精益求精,並推動本地的文化參與和發展,以鞏固香港的國際大都會美譽。

香港管弦樂團由香港特別行政區政府資助 香港管弦樂團首席贊助:太古集團 香港管弦樂團為香港文化中心場地伙伴 Tan Dun and Bright Sheng, each conducting their own compositions, on the Naxos label. Its acclaimed community engagement programme brings music to ten of thousands of children annually. A recording will soon be issued free to schoolchildren throughout Hong Kong of Britten's A Young Person's Guide to the Orchestra, Prokofiev's Peter and the Wolf and Leopold Mozart's Toy Symphony.

This season is Jaap van Zweden's third as Music Director of the HK Phil. With him, the orchestra is undertaking major expansion and new projects, including the first-ever performances by a Hong Kong or mainland Chinese orchestra of Wagner's *The Ring of the Nibelung*. The four operas are being performed, one a year, in concert and recorded live for the Naxos label.

The Swire Group has been the Principal Patron of the HK Phil since 2006. Through this sponsorship, which is the largest in the orchestra's history, Swire also endeavours to promote artistic excellence, foster access to classical music and stimulate cultural participation in Hong Kong, and to enhance Hong Kong's reputation as one of the great cities of the world.

The Hong Kong Philharmonic Orchestra is financially supported by the Government of the Hong Kong Special Administrative Region

SWIRE is the Principal Patron of the Hong Kong Philharmonic Orchestra

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香港管弦樂團

HONG KONG PHILHARMONIC ORCHESTRA

第一小提琴 FIRST VIOLINS



王敬/樂團首席 Jing Wang/ Concertmaster



梁建楓/樂團第一副首席 Leung Kin-fung/First Associate Concertmaster



王思恒/樂團第二副首席 Wong Sze-hang/Second <u>Associate C</u>oncertmaster



朱蓓/樂團第三副首席 Bei de Gaulle/Third Associate Concertmaster



把文晶 Ba Wenjing



程立 Cheng Li



桂麗 Gui Li



許致雨 Anders Hui



李智勝 Li Zhisheng



龍希 Long <u>Xi</u>



毛華 Mao Hua



梅麗芷 Rachael Mellado



倪瀾 Ni Lan



王亮 Wang Liang



徐姮 Xu Heng



張希 Zhang Xi

第二小提琴 SECOND VIOLINS



●范丁 Fan Ting



■趙瀅娜 Zhao Yingna



▲梁文瑄 Leslie Ryang Moonsun



方潔 Fang Jie



何珈樑 Gallant Ho Ka-leung



余思傑 Domas Juškys



簡宏道 Russell Kan Wang-to



劉博軒 Liu Boxuan



冒異國 Mao Yiguo



潘廷亮 Martin Poon Ting-leung





冒田中知子 Tomoko Tanaka Mao



黄嘉怡 Christine Wong Kar-yee



周騰飛 Zhou Tengfei



章鈴木美矢香(休假) Miyaka Suzuki Wilson (On sabbatical leave)



中提琴 VIOLAS



●凌顯祐 Andrew Ling



■李博 Li Bo



▲熊谷佳織 Kaori Wilson



崔宏偉 Cui Hongwei



付水淼 Fu Shuimiao



洪依凡 Ethan Heath



黎明 Li Ming



林慕華 Damara Lomdaridze



羅舜詩 Alice Rosen



孫斌 Sun Bin



張姝影 Zhang Shu-ying

大提琴 CELLOS



●鮑力卓 Richard Bamping



■方曉牧 Fang Xiaomu



▲林穎 Dora Lam



陳屹洲 Chan Ngat Chau



陳怡君 Chen Yi-chun



崔冰 Timothy Frank



關統安 Anna Kwan Ton-an



李銘蘆 Li Ming-lu



宋亞林 Yalin Song

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▲姜馨來 Jiang Xinlai



張沛姮 Chang Pei-heng



馮榕 Feng Rong



費利亞 Samuel Ferrer



林傑飛 Jeffrey Lehmberg



鮑爾菲 Philip Powell



范戴克 Jonathan Van Dyke

● 首席 Principal

■ 聯合首席 Co-Principal

▲ 助理首席 Assistant Principal

香港管弦樂團

HONG KONG PHILHARMONIC ORCHESTRA

長笛 FLUTES



●史德琳 Megan Sterling



▲盧韋歐 Olivier Nowak

短笛 PICCOLO



施家蓮 Linda Stuckey

雙簧管 OBOES



●韋爾遜 Michael Wilson

Ruth Bull

英國管 COR ANGLAIS



關尚峰 Kwan Sheung-fung

單簧管 **CLARINETS**



●史安祖 Andrew Simon



▲史家翰 John Schertle

低音單簧管 BASS CLARINET



Lau Wai

巴松管 **BASSOONS**



●莫班文 Benjamin Moermond

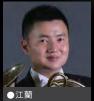
▲李浩山 Vance Lee

低音巴松管 CONTRA BASSOON



崔祖斯 Adam Treverton Jones

圓號 HORNS



Jiang Lin



■柏如瑟 Russell Bonifede



▲周智仲 Chow Chi-chung



李少霖 Homer Lee



Natalie Lewis

小號 **TRUMPETS**



●麥浩威 Joshua MacCluer

長號



▲莫思卓 Christopher Moyse



華達德 Douglas Waterston

低音長號 TROMBONES **BASS TROMBONE**



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Maciek Walicki



韋彼得 Pieter Wyckoff



●雷科斯 Paul Luxenberg



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長笛:莊雪華^ Flute: Ivy Chuang[^] 雙簧管:珍尼莎^ Oboe: Jennifer Shark[^]

單簧管:區淑儀 Clarinet: Rita Au 巴松管:田口美奈子*

Bassoon: Minako Taguchi*

圓號:趙振邦 Horn: Harry Chiu 小號:馮嘉興^ Trumpet: Fung Ka Hing[^]

長號:江子文^* Trombone: Jason Kong^*

大號:林榮燦*

Tuba: Lam Wing Tsan* 定音鼓/敲擊樂:許莉莉 Timpani/Percussion: Lily Hoi

*誠蒙香港小交響樂團允許參與演出

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梵志登 Jaap van Zweden ^{音樂總監} Music Director</sup>

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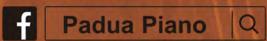


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Haeran Hong Renowned Korean Soprano singing Handel's Arias 知名韓裔女高音 詠唱多首韓德爾詠嘆調

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梵志登 Jaap van Zweden 音樂總監 Music Director

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