



Newsletter

Summer 2014

Hong Kong College of Radiologists

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Dr. Law Chun Key

We are in a hot summer and yet the College continues to be actively fulfilling our mission to upkeep the standard and practice of Radiology in Hong Kong.

On examination matters, we noted major changes in the regulations from The Royal College of Radiologists (RCR): the number of permitted attempts at FRCR examinations in Clinical Radiology and Clinical Oncology will be changed from Spring 2015 onwards so that no candidate will automatically be permitted more than six attempts at any examination or examination module. In order to attempt an examination a seventh or more times, candidates will have to demonstrate additional educational experience. This would have different impact to different parts / specialties.

For Clinical Radiology specifically, the oral component of the Joint Final Examination for the Fellowship in Clinical Radiology has gone electronic in UK from Spring 2013. Dr. Stephen Cheung, Dr. W.L. Poon, Dr. K.S. Tai and Dr. K.T. Wong representing our College had attended the Osirix Training and observed the Digital Viva of Final (Part B) FRCR Examination in Clinical Radiology in London on 30th-31st March, 2014. With the technical know-how and necessary IT support from our young Fellows of the Electronic Examination Working Group, headed by Dr. Stephen Cheung, we are confident to introduce the digital format to the Oral Component of the Joint Examination in Hong Kong later this year. A briefing session with Training Heads of training centres would soon be arranged for this purpose, together with the deliberation of updating the College Training Guidelines and the Clinical Referral Guidelines.

For Clinical Oncology, an update on the recognition of training period in other specialties for training in Clinical Oncology in the "Resident Training Program in the Hospital Authority – Clinical Oncology" was endorsed and we thank Dr. Y. Tung for his contribution.

On external affairs, our College continues to foster close ties with fellow Societies and Colleges outside Hong Kong. Dr. Leong had represented the College in the Annual Meeting of the International Radiology Quality Network (IRQN) held at the European Congress of Radiology (ECR) in Vienna, Austria, on 6th-10th March, 2014. The IRQN is now transited as an International Society of Radiology (ISR) Standing Committee: the International Commission on

Radiological Quality and Safety (ICRQS). Our College shares the same vision of ICRQS to improve radiological safety, quality and appropriate use of radiology, and we are very privileged to continue to be one of her members. The College Council had also recommended several representatives to serve as members of the respective ICRQS working group of experts. In addition, during the ECR 2014, Dr. Leong had also attended ISR Special Meeting of the International Assembly to update the latest arrangement for the ICR 2014, to be held in Dubai – United Arab Emirates, from 9th-12th September, 2014; an informal meeting of the Asian Oceanian School of Radiology (AOSOR) for discussion of the progress of AOSOR fellowship programmes; the European Society of Radiology (ESR) ESR/AOSR Business Meeting on the ESR Associate Institutional Membership (detailed below); the AOSR Executive Committee Meeting, and a meeting with Prof. Gustav K. von Schulthess and IDKD Course Directors on the IDKD 2014 course in Hong Kong. In April 2014, Dr. Tony Loke was nominated as our College's representative to participate in the 2014 Congress of Radiology, Malaysia, and deliver a lecture.

Nothing benefits our members more from these College's representation in international societies than providing free access to memberships of these societies. With some negotiation, our College had applied for the ESR Associate Institutional Membership, in order that all our individual members would be able to enjoy all benefits that are related to ESR corresponding membership free of charge, including reduced ECR fees, free on-line access to European Radiology and the exclusive option to participate in European Diploma in Radiology and all activities of the European School of Radiology (EOSR). Not long ago we have communicated with individual members to get your consent to submit your contact email address to ESR for such purpose. Our College would only provide ESR with the consented members' contact information once and would keep them updated on our new members annually. Any further updates of members' contact information would be handled by ESR itself in the future.

The HKCR 15A Travelling Fellowship is another mechanism to foster close ties with UK colleagues. A selection panel was formed and applicants were interviewed in May. The Fellowship has been awarded to three candidates this year - Dr. WONG Kwok Chun, Department of Radiology, Kwong Wah Hospital; Dr. LEE Ho Fun Victor, Department of

Clinical Oncology, The University of Hong Kong, and Dr. KWOK Yuen Lam, Department of Clinical Oncology, Queen Elizabeth Hospital.

Locally, the 4th International Diagnostic Course Davos (IDKD) Intensive Course, in collaboration with our College and The University of Hong Kong, was held on 28th – 30th June 2014, with subspecialty focus on “Musculo-skeletal Diseases”, with overwhelming success. Shortly afterwards, our College has co-organized with the Hong Kong College of Cardiology (HKCC), and the Society for Cardio-vascular Magnetic Resonance (SCMR) a symposium on “The Current State-of-Art in Cardiac MRI” on 12th July 2014, which was also well attended. Other scientific functions co-hosted and supported by our College include Liver MRI Dinner Symposium on “Liver Specific MRI Contrast Medium – Role in earlier detection, characterization and treatment decision for Hepatic Neoplasms” on 9th April 2014; and Scientific Seminar on “Best Practice in Radiology for Tumor Ablation” on 7th June 2014. These functions would not have been so successful without our members and colleagues' full support and whole-hearted participation.

Our College has always been supportive of public health issues. Dr. Y.C. Wong was nominated as our College's representative to the Department of Health Colorectal Cancer (CRC) Screening Pilot Programme Task Force, which was established to oversee planning, implementation and evaluation of a pilot C.R.C. screening programme. I was nominated as our College's representative to the Cancer Expert Working Group (CEWG) on Cancer Prevention and Screening, which was formed under the Cancer Coordinating Committee (CCC) to review scientific evidence and formulate guidelines in cancer prevention and screening. To encourage the best clinical practice, our College had regularly updated and reviewed the published guidelines and position papers like the Mammography Statement and Clinical Referral Guidelines. The College Council is finally reviewing the updated Mammography Statement which will soon be publicized. The College had also responded to the Consultation on the Draft Recommendations of the Working Group on Defining High-Risk Medical Procedures/Practices Performed in Ambulatory Setting.

For public education, the Academy is recently working with Ming Pao on a series of its Health-care column “醫專大巡房”, that aims to inform the public that Hong Kong has always been well taken

care of by a group of specialists of different specialties. Dr. Y.C. Wong and I, representing the College, had been interviewed by Ming Pao to introduce our College and our specialties services and the column was published on 4th August. More details are available at www.mingpaohealth.com/doc.htm


A brief account on the work and activities of various committees:

- (a) For the Scientific Subcommittee, the new abstract submission system for the College's Annual Scientific Meeting (ASM) was developed and implemented in May 2014;
- (b) For the Journal, the Editorial Board had submitted the application for MEDLINE Indexing in June 2014;
- (c) The Homepage Subcommittee is finalizing the design lay-out of a new web-page, which is expected to be launched in late 2014. Of special note is our College's resolve to terminate the webmail service for our members w.e.f. 1st January 2015, since it was discovered that a number of these email accounts were hacked and used for sending spam mails.

Soon summer will be over and we then enter the busy season to prepare for the golden week of Examinations - Joint Admission Ceremonies - ASM. We wish to congratulate Prof. Hans Ringertz, renowned radiologist from Sweden, elected as our Honorary Fellow, and Mr. Andrew Fung, Director and General Manager of Hang Seng Investment Management Limited, who gives expert management of our College's funds throughout the years, elected as our Honorary Member. The conferment ceremony of both will be held during the Joint Admission Ceremonies on 1st November 2014. Of course, we are also looking forward to the 15th Ho Hung Chiu Lecture at the same function, which will be delivered by Prof. Gabriel Leung, Dean of Li Ka Shing Faculty of Medicine, The University of Hong Kong.

Please, mark the dates on your diary and keep visiting our College website for updated details. The functions would not be successful without your full support and whole-hearted participation.

Lastly, I would like to end this short Jotting by thanking once again all members of the Council, Committees, Subcommittees and our Secretariat team for their selfless service and hard work. Please, do give them all your unstinting support!

Wish you all every success! 

Message from the Editor

Dr. CY Lui

Do you like our new front cover design? Thanks to the art director of our Newsletter, Dr. Catherine Wan who created the wonderful cover for us.

In this issue we have many articles covering various activities of our College in the past few months and again this reflected our members and the Council's effort in promoting the education and upholding the standard of the members of our College.

In the Leisure Corner section we have Dr. Shiobhon Luk again bringing us back in history of CT. Many of us are using high quality multi-detector CT now but for younger trainees the era of single slice CT seems very remote. Let's look back the history of development of this important everyday examination technique.

We would like to thank the members of the Newsletter Subcommittee and authors of the articles in this Newsletter. Moreover, we would like to thank our secretariats for their wonderful work, especially Karen Law and Phyllis Wong. Without their support the Newsletter could not be so successful.

Wish you enjoy the Newsletter! ✍️

Call for Application of HKCR Education and Research Fund

HKCR Education and Research Fund is now open for application to support research projects, conference attendance and other activities between 1 January 2015 and 30 June 2015

The objective of HKCR Education and Research Fund is to promote and assist career development, continuing education and research activities among members of Hong Kong College of Radiologists (HKCR) and international professional community.

Four Categories of Grants are available from the Fund:

- I. Education grant to assist HKCR members for overseas advanced training and international conventions.
- II. Education grant for Mainland China and overseas radiologists to participate in activities organized by HKCR.
- III. Conference grant to assist HKCR members in organizing educational activities.
- IV. Research grant to assist HKCR members to conduct pilot study in basic and clinical research

The completed application form should be submitted to the Secretariat Office to the attention of the Chairman of the Committee of HKCR Education and Research Fund. Enquiries on details of grants and application forms can be directed to the College Secretariat. ✍️

Deadline for Application: 15 October 2014

Visit to London on Digital Viva Examination of the Joint Final Examination for the Fellowship in Clinical Radiology

Dr. Wong Ka Tak, Prince of Wales Hospital

The transition of oral examination of Joint Final Examination in Radiology from film-based to electronic format is a very important step in the whole examination procedure after changing the reporting and rapid reporting sessions to electronic format a few years ago. With the unfailing support from the Hong Kong College of Radiologists, a team of local examiners including Dr. K.S. Tai, Dr. W.L. Poon, Dr. Stephen Cheung and myself travelled to London to attend the Osirix training and the Spring 2014 sitting of the Final (Part B) FRCR Examination in Clinical Radiology of the Royal College of Radiologists as observers from 30th - 31st March 2014. This trip turned out to be an extremely fruitful one and prepared ourselves to be ready for the transition later this year.



Osirix Training Day (30th March 2014)

I attended the whole day Osirix training course conducted by Dr. Phil Hughes and his colleagues, who had extensive experience in conducting teaching and FRCR digital viva examination in UK. During the comprehensive training course, I received tutorial and hands-on teaching on various tools of the Osirix software including data acquisition, anonymization, image manipulation, organizing database, exporting / editing series and additional functionalities. From the long list of topics being covered, you can imagine how busy we were! These were particularly useful for users who were not familiar with the Mac OS and the Osirix software.


Observation of Digital Viva Examination (31st March 2014)

I was very grateful to have the opportunity to directly observe how digital viva examination was conducted in real life situation, which was one of the most important parts of this visit. As it was one of the

primary objectives to assess whether the Hong Kong centre was ready for digital viva examination in the coming Joint Final Examination in October 2014, we paid meticulous attention to the system set-up, hardware requirement and detailed work flow of the digital viva examination.

Considerable time in the morning was reserved for all examiners to upload their examination files and make sure every examination case can be displayed properly during the oral examination. "Fortunately", I was able to observe some technical problems and how these were promptly fixed by the on-site technical supporting team.

During the actual examination part, I was amazed by how smooth the oral examination was conducted! In fact, the electronic format provided a more familiar environment to candidates (who mostly worked on PACS stations in daily clinical practice), allowed more time for interactive discussion between examiners and candidates and rendered transition between different examination cases in a much smoother manner. The precious experience of real time observation definitely added to my confidence to implement digital viva examination in Hong Kong.

I would like to give my special thanks to the Hong Kong College of Radiologists to offer sponsorship and an efforted coordination to make the visit possible. In addition, the kind hospitality from the Royal College of Radiologists was well received. The experience of this trip will be shared with all the radiology training centres of the Hospital Authority, which is a crucial step in the training of radiology residents and in preparing trainers for the most appropriate training methods for their trainees. 



Exit Assessment – January 2014

Date: 10 and 13 January 2014 (Friday and Monday)

Venue: College Chamber, Room 909, 9/F, Hong Kong Academy of Medicine Jockey Club Building

Radiology

Chairman of Assessment Panel: Dr. LAM Hon Shing
Assessors: Dr. CHAN Chi Sang James, Dr. IU Po Ping, Dr. Lilian LEONG, Dr. TSO Wai Kuen

Successful candidates:

CHAN Ka Chi	Prince of Wales Hospital
CHO Kwan Yin	Queen Mary Hospital
FANG Xin Hao Benjamin	Queen Mary Hospital
FUNG Kai Pong Vincent	Pamela Youde Nethersole Eastern Hospital
HO Grace	Queen Mary Hospital
LAM CHEUK Hang Sunny	Kwong Wah Hospital
LEE Ka Lok	Prince of Wales Hospital
LEUNG On Cheung	Tuen Mun Hospital
LUK Yiu Shiobhon	Pamela Youde Nethersole Eastern Hospital
PAN Nin Yuan	Kwong Wah Hospital
SHE Hoi Lam Helen	Queen Mary Hospital
TAM Ka Ying	North District Hospital
TAM Yee Na	North District Hospital
TSANG Wai Kan	Tuen Mun Hospital
WAN Yu Hon	Pamela Youde Nethersole Eastern Hospital
WONG Wai Yin	Queen Mary Hospital

Clinical Oncology

Chairman of Assessment Panel: Dr. LAM Hon Shing
Assessors: Dr. AU Siu Kie, Prof. KWONG Lai Wan Dora, Dr. YAU Chun Chung

Successful candidates:

CHAN Wing Lok	Queen Mary Hospital
KWOK Yuen Lam	Queen Elizabeth Hospital
LI Wing Sum	Queen Elizabeth Hospital
LIM Mei Ying	Princess Margaret Hospital
MUI Wing Ho	Tuen Mun Hospital
NYAW Shi Feng	Tuen Mun Hospital

Nuclear Medicine

Chairman of Assessment Panel: Dr. LAM Hon Shing
Assessors: Dr. LEUNG Yim Lung, Dr. NGAI Wai Tat

Successful candidates:

KUNG Boom Ting Queen Elizabeth Hospital

Exit Assessment – July 2014

Date: 8 July 2014 (Tuesday)

Venue: Conference Room, 1/F, New Wing, Department of Radiology, Kwong Wah Hospital, 25 Waterloo Road, Kowloon, Hong Kong

Radiology

Chairman of Assessment Panel: Dr. LAM Hon Shing
Assessors: Dr. CHAN Chi Sang James, Dr. KHOO Lai San Jennifer

Successful candidates:

Dr. HO Sai Chung North District Hospital
Dr. LUI Pui Yan North District Hospital

HKCR 15A Travelling Fellowship 2013: Fetal Neuro-imaging at St. Thomas Hospital, London

Dr. Elaine Kan, Kwong Wah Hospital

As I exited the departure hall of Heathrow Airport at 7am on a Sunday, cool crisp air and a clear blue sky greeted me. Ingrained with fond memories of my attachment at Great Ormond Street Hospital in 2011, I was truly glad to be back in London.

The day of my arrival coincided with the London Marathon. My cab had to take a major detour due to the road closure and the ride ended up costing a lot more than expected. On the upside, I was taken around to all the famous tourist attractions en route from airport to my accommodation.

This three-week attachment at the Department of Perinatal Imaging & Health at St. Thomas Hospital was a unique experience. In contrast to a typical NHS radiology department, this Department is a Research Centre of Kings College London.



St Thomas Hospital is located at the south bank of the River Thames. Within walking distances from St. Thomas are the House of Parliament, Westminster Abbey & the London Eye.

The Department is a hub of academia comprising physicists, neonatologists, radiologists (paediatric neuro- and cardiac radiologists), neurobiologists and radiographers, there are also PhD and post-doctorate students from all over the world. It runs two MR scanners, a 3T sited within the Neonatal Intensive Care Unit and a 1.5T located in the Department of Radiology, and state-of-the-art laboratory facilities. The office is strategically located within the Hospital,

where staff enjoyed a panoramic view of the House of Parliament and Big Ben's chime every quarter of an hour.



A spectacular view of the House of Parliament & Big Ben through the office windows.

The Department's Head of Perinatal Imaging is Professor Mary Rutherford, with whom I had the honor of working under during these three weeks. Mary is world-renowned expert in fetal and perinatal imaging and a seasoned neonatal neurologist. She was part the Department's pioneering research into hypothermia therapy for prevention of perinatal brain injury. Her past and present research encompassed numerous multi-million projects that aim to understand the causes of perinatal brain injury.

A typical week working with Mary and her team entailed MR scanning of clinical and research fetuses and neonates, clinical meetings with fetal medicine specialists, neonatologists, paediatric neurologists, and scientific seminars on Friday afternoons during which researchers from other centers in the UK present their findings.

Immersed in this academic environment for three weeks, not only did I gain a deeper understanding of the development and appearance of fetal and neonatal brain at different ages, I also had the

opportunity to mingle with many PhD students and gained insights into various on-going projects of that were making significant clinical impact.



At the MR control room with Professor Mary Rutherford, Head of Perinatal Imaging (on the left) and Dr. Kelly Pegoretti, Research Fellow.

During my second week in London I had the privilege to visit the Royal College of Radiologists (RCR) in Lincoln's Inn Field. I met with Dr. Giles Maskell, the President, and Dr. Caroline Rubin, the Medical Director of Education and Training in Clinical Radiology. Dr. Maskell also took me on a guided tour of the recently refurbished College.



Meeting Dr. Giles Maskell and Dr. Caroline Rubin at the RCR.

That evening I attended the RCR Annual Dinner at the Waldorf Hilton. I was delighted to be amongst many friends of the HKCR including the Past President Dr. Jane Barrett, and past examiners such as Dr. Joanna

Fairhurst. The food, especially the Waldorf salad, was scrumptious and the speeches by the President and Professor David Haslam, the Chairman of National Institute for Health and Care Excellence (NICE), were intellectual yet light-hearted.



Catching up with Dr. Joanna Fairhurst (far right) & Natalie Fairhurst at the RCR Annual Dinner.

On my very last day in London I caught up with Dr. Kshitij Mankhad, a friend of the HKCR who lectured at the HKCR neuro-radiology study day in 2012. I had learned a great deal from him during my attachment at Great Ormond Street Hospital in 2011 and it was a joy to see him again.

All in all, these three weeks in London was truly eye-opening. It was a remarkable learning experience in fetal and neonatal neuro-imaging, at the same time a valuable opportunity to form closer ties with the Royal College of Radiologists. I am deeply grateful to Professor Mary Rutherford and her team at the Department of Perinatal Imaging & Health, and am equally grateful to the HKCR for granting me this opportunity. ✍️

HKCR 15A Travelling Fellowship 2013: Breast Imaging at Nottingham Breast Institute Nottingham

Dr. William C.W. Wong, Kwong Wah Hospital

Introduction

It is my greatest honor and pleasure to be awarded the HKCR 15A Travelling Fellowship this year, and I would like to take this opportunity to express my deepest gratitude to the generous support from the College to make this invaluable training experience possible. Being the first 15A Travelling Fellowship awardee with clinical attachment outside the Greater London and being one of the first awardees to visit the new RCR headquarters, this learning experience and ambassadorial mission was destined to be a pleasantly adventurous one, even before my arrival to the UK.

Nottingham Breast Institute



Nottingham Breast Institute, NUH

With the support of the Fellowship, I started my 4-week training at Nottingham Breast Institute (NBI) of Nottingham University Hospitals NHS Trust from 13th January to 7th February 2014. Two distinguished features of the NBI make it a great place for training in breast imaging. Firstly, its Breast Education Center is one of the leading training centers in the United Kingdom, and is renowned for its long-standing

experience and expertise in breast cancer screening, diagnosis, treatment and research. Another inspiring feature of the NBI is its focus of multi-disciplinary approach to breast service, highlighted with the close relationship of radiologists with professionals from other disciplines, and illustrated by the multiple weekly clinical-pathological-radiological conferences, which makes it an ideal center to develop the field of radiologic-pathologic correlation. Emphasis of radiological-pathological correlation not only broadens radiologists' understanding on the histopathological basis of imaging presentations of various disease, but also smoothes the communication across various expertise of different subspecialties to streamline patient care. Therefore, the aims of my attachment there were multiple: to sharpen my radiological expertise in the fields of breast imaging as a breast radiology specialist, to develop holistic visions in the delivery of breast cancer services as a whole, and to develop the intellectual framework of radiological-pathological correlation as well.

On the day of my arrival at the NBI in early January 2014, I received the warm and friendly welcome from the team of breast consultant radiologists, composing of Dr. Helen Burrell (Director of Breast Screening), Dr. Eleanor Cornford (Director of Training & Education), Dr. Lisa Hamilton (Head of Breast Services), Dr. Jonathan James and Dr. Sarah Tennant. In the next four weeks' time, I worked closely with the Team, and their services coverage was extensive including breast imaging and biopsies for both screening and diagnostic purposes over the Greater Nottingham area. Indeed, the learning experiences at the Breast Radiology Team of NBI were far more vibrant and inspirational than I had ever imagined. The Team and I held numerous discussions, formally and informally, over a diverse and broad range of spectrum of issues covering from the macroscopic end about the future of radiology under the NHS health care to the microscopic end about the tips and tricks in breast imaging and biopsies. In fact, this mutual intellectual enhancement and the sharing of

laughter throughout the days made the daily 8am-to-5pm training period some truly non-tiring and enjoyable moments.

I also spent time having my attachment at the Department of Histopathology observing the work of Professor Ian Ellis, joining his specimen cutting and slide reporting sessions. Stepping into the histopathologists' shoes actually enhanced my visions and knowledge in the radiological-pathological correlations of breast diseases.



Colleagues of NBI: Dr. Helen Burrell (top left),
Dr. Eleanor Cornford (top right),
Dr. Lisa Hamilton (bottom left) and Prof. Ian Ellis (bottom right)

Visit to the Royal College of Radiologists

As the ambassador of our College, on 17th January 2014 I paid my visit to the Royal College of Radiologists and had a meeting with the Warden of the Faculty of Clinical Radiology Dr. Caroline Rubin, at the new RCR building at Lincoln's Inn Fields in London. Dr. Rubin and I had a delightful discussion over various issues on which we had pleasantly exchanged our opinions. In a globalized world, more tightly-knitted web of communications should be established between the radiology professional communities among different countries. Therefore,

in addition to showing her support to our College's 15A Travelling Fellowship through which she believed it had tightened the link between both Colleges, Dr. Rubin introduced to me the RCR's arrangement in sending out travelling professorship, such as RCR's Sir Howard Middlemiss Travelling Professorship, in order to foster the friendship between the communities of radiologists across the continents. As a token of the continuous friendship between the two Colleges, Dr. Rubin and I had our handshake in front of the RCR emblem at the new RCR headquarters at 63 Lincoln's Inn Fields, London.



Meeting with Dr. Caroline Rubin,
Warden of the Royal College of Radiologists

Conclusion

On the early morning of leaving Nottingham, the spirit of refreshment overwhelmed me. Amazed at the harmoniously-blended colors of lilac and golden-yellow up in the sky, I felt anew as I know I am now equipped with much more holistic visions in the fields of breast radiology and radiological-pathological correlations. Brushes tinted in different paints can turn the canvas of heaven into a sensational inspiration, I believe the same applies to breast imaging and breast cancer services as a whole as well. 🖌️

HKCR 15A Travelling Fellowship 2013: Training of Image Guided Gynecological Brachytherapy at Addenbrooke's Hospital, Cambridge

Dr. Amy Chang, Pamela Youde Nethersole Eastern Hospital

I am very pleased to share my three-week clinical attachment at Cambridge in May 2014 under the HKCR 15A travelling fellowship. I was extremely fortunate to be able to follow Dr. Li Tee Tan, who is a renowned Consultant Clinical Oncologist at Cambridge Addenbrooke's Hospital. She was the pioneer to develop image guided gynecological brachytherapy for cervical cancers at her hospital since 2009. She is also the chair of the committee producing the Royal College of Radiologists (RCR) guideline for implementing image guided brachytherapy for cervical cancers in UK.



Happy gathering with Dr. Li Tee Tan (right) and Dr. Vivien Tse (left)

Traditionally, the standard treatment for locally advanced cervical cancers is chemoradiation with brachytherapy and concurrent cisplatin, and the dose specification has been defined in 2D dose points according to the ICRU guidelines. Recently there is increasing adoption of performing brachytherapy using image guidance, according to the GEC-ESTRO guidelines. During my attachment, I was able to follow the whole workflow of treating cervical cancer patients in this new approach, from insertion of applicators at the theatre, MR and CT imaging for planning, treatment planning and dose optimization, treatment delivery and applicator removal. Dr. Tan was very generous in sharing her experience, and giving useful advice on practical aspect of the new technology. I also learnt immensely from the gynecology team at the hospital, including Dr. Charlotte Coles, Dr. Deborah Gregory and Dr. Vivien Tse. They were all extremely helpful in sharing and discussing different aspect of patient care during clinics and radiotherapy planning of gynecological cancer patients. I was also able to join the multidisciplinary team meetings that were co-organized with gynecologists, radiologists and pathologist to learn about interesting and challenging management issues.

As the development of image guided brachytherapy is a joint collaborative effort with other disciplines,

Dr. Tan has very kindly arranged sessions for me to meet the Consultant radiologist and physicist at the hospital, who has educated me immensely on the detailed aspect on the imaging protocol, and practical aspects of dose optimization from the side of the physicist. I was especially grateful to know Miss Katie Bradshaw, who is an advanced practitioner radiotherapist, and she is much dedicated in caring of gynecological cancer patients throughout the whole radiotherapy or chemotherapy treatment.

I also joined a Practical Image guided Gynecological Brachytherapy workshop at the Christie Hospital, Manchester. It was a comprehensive course, and I was fortunate to meet Dr. Richard Potter, the pioneer for this technique from Vienna, who was also giving a lecture at the course. The new ICRU 88 guideline that is going to be published later, was also described in a lecture, which will be based on the contouring concepts of target volumes from the GEC-ESTRO guidelines.

It was also my honor to meet with the Warden of the Faculty of Clinical Oncology, Dr. Dianne Gilson, at the Royal College of Radiologists. The new building is located at Lincoln's Inn Fields at Holbon and situated among various other colleges around the corner. It is only up and running in the recent year. It was a wonderful time talking to Dr. Gilson, to share with her about the history and mission of the HKCR 15A fellowship, the training objective and experiences. She was also very supportive of this fellowship, and she is so kind to welcome future fellows for any enquiry if there is any question on the clinical attachment at UK. I also met the College President Dr. Giles Maskell, and we took a picture at the beautiful entrance of the College before we said goodbye.



From left to right :Dr. Dianne Gilson,
Dr. Amy Chang and Dr. Giles Maskell

Overall it was an extremely rewarding experience, and I sincerely thank the HKCR for such a valued opportunity for my learning at Cambridge, UK. ✍️

Joint Scientific Seminar by HKCR, HKSDR and HKU on Moving Radiology to the Front Line, 6th January 2014

Dr. Elaine W.S Fok, Queen Elizabeth Hospital



Professor Dixon states radiology's increasingly important frontline role in each hospital's everyday operations.

On 6th January 2014 evening, the Joint Scientific Seminar on "Moving Radiology to the Front Line: Should we be the point of first referral?" was delivered by Professor Adrian K. Dixon in the Hong Kong Academy of Medicine Jockey Club Building. The keynote event was jointly organized by the Hong Kong College of Radiologists (HKCR), Hong Kong Society of Diagnostic Radiologists (HKSDR), and the University of Hong Kong (HKU).



The speech is enlightening and motivating to the many radiologists attending the evening seminar.

Our distinguished speaker is currently Professor of Radiology at Cambridge University and Honorary Consultant Radiologist at Addenbrooke's Hospital, United Kingdom. Professor Dixon is renowned as a role model to the radiology community worldwide, and has contributed immensely to the setting of standards in radiology through his extensive publications. Amongst numerous prominent roles,

he was Warden of the Faculty of Clinical Radiology of the Royal College of Radiologists 2002-2006, Chairman of the Royal College of Radiologists' Guidelines Working Party from 1993-1998, and a member of the Partners Council of the National Institute of Excellence (NICE) 1999-2002.

Professor Dixon stressed the importance of bringing radiology to the frontline, especially in the acute in-hospital setting. He began with the statement "No hospital can be better than its radiology and pathology departments" to highlight the fact that radiology is already at the heart of each hospital's operations. He elaborated that early imaging including CT scans in the acute setting greatly expedites diagnosis and management, cuts hospitalization costs and improves prognostic outcomes, as supported by an increasing amount of scientific data. He believes radiologists no longer have just an adjunctive role in medicine, and are increasingly becoming active and forefront players in patient care.

Professor Dixon's speech was well-received by the large number of fellows and members attending the event. I take this opportunity to sincerely thank Professor Dixon and the organizing committee for making the seminar a great success. 🖋️



On concluding his speech, Professor Dixon receives a warm greeting and token of thanks from Dr. Lilian Leong.

Liver MRI Dinner Symposium, 9th April 2014

Dr. Lawrence Tee, Kwong Wah Hospital

The dinner symposium on “Liver Specific MRI Contrast Medium – Role in earlier detection, characterization and treatment decision for Hepatic Neoplasms”, jointly organized by the Hong Kong College of Radiologists and Bayer HealthCare and supported by the Hong Kong Society of Hepatobiliary and Pancreatic Surgery and the Hong Kong Radiological Technologists Association, was held at the Cityview Hotel on 9th April 2014, and was well received by the audience.

We were very privileged to have invited renowned international and local experts in the field to share their experience. The symposium started off with an inspiring talk on the clinical values of liver specific MRI contrast medium for assessing liver lesions by Prof. Myeong-Jin Kim, Professor of the Department of Diagnostic Radiology at Yonsei University College of Medicine, Seoul, and Staff Radiologist of the Severance Hospital of the Yonsei Medical Center, Seoul. Prof. Kim gave an overview of performing liver MRI using liver specific contrast medium, and enlightened the audience on the recent research and advances in the field which have shown very promising results and improved diagnostic accuracy in various clinical scenarios, such as early detection and characterization of liver lesions, surgical planning and post-treatment follow up of hepatocellular carcinoma patients, and functional assessment of the liver and biliary tree.

The symposium continued with a talk by Dr. Tony Loke, Consultant Radiologist, Department of Radiology & Organ Imaging, United Christian Hospital, Hong Kong. Dr. Loke delivered an informative and educational talk on how liver specific MRI contrast medium helps in the detection, localization and characterization of focal liver lesions. He shed light on the strengths and limitations of MRI using liver specific contrast medium and diffusion weighted imaging, and the complementary role of the two advanced imaging techniques in the evaluation and management of various challenging liver pathologies.

The final talk was delivered by Dr. T.P. Fung, Consultant Surgeon, Head of Division of



Hepatobiliary and Pancreatic Surgery, United Christian Hospital, Hong Kong. From a surgeon's perspective, Dr. Fung shared his experience in using liver specific MRI contrast medium for the management of liver lesions. With the aid of a series of interesting cases, he gave us an overview of the evolution of imaging techniques in the evaluation of the liver, highlighting the importance of a close and continued collaboration between the radiologist and the liver surgeon.

I would like to take this opportunity to express our heartfelt gratitude towards Prof. Kim, Dr. Loke and Dr. Fung and the organizers for making this dinner symposium a great success. Thank you! 🍷

Scientific Seminar on Best Practice in Radiology for Tumor Ablation, 7th June 2014

Dr. Hillary Tam, North District Hospital



From left to right: Dr. Lilian Leong, Professor Ken Thomson, Professor Simon Yu and Dr. Danny Cho



Opening remarks by Dr. Lilian Leong

The scientific seminar titled "Best Practice in Radiology for Tumor Ablation", organized by the Hong Kong College of Radiologists, was successfully held on 7th June, 2014 at the Conrad Hotel. In that afternoon, we were privileged to have Professor Ken Thomson, Professor and Director of Radiology at Alfred Hospital in Victoria, Australia and Professor Simon Yu, Department of Imaging and Interventional Radiology, Prince of Wales Hospital to share with us their knowledge and experience in tumour ablation. The seminar was greatly appreciated and well received by the audience.

Professor Ken Thomson is reputed for his expertise in interventional radiology and he is also a teaching fellow at the University of British Columbia in

Vancouver, Chest Radiology Fellow at McGill University in Montreal and Cardiovascular Radiology Fellow at the University of Rochester in New York. His main interests are in irreversible electroporation, interventional oncology, carbon dioxide angiography, thrombolysis, arterial stents, stent grafts and telemedicine, in particular, automated image analysis and teleradiology. Professor Thomson has been delivering lectures and performing live case demonstrations at national meetings.

Professor Thomson started the seminar with a lecture titled "Best Practice in Radiology for Tumor Ablation - Can Robots Help to Point the Way", giving the audience a comprehensive overview on the use of irreversible electroporation and robot-assisted navigation system. He also drew our attention to its indication, technical aspects and pitfalls of the techniques by sharing his experience and a number of technically demanding cases with us. He concluded his lecture by bringing us insights into the future use of this innovative technique.



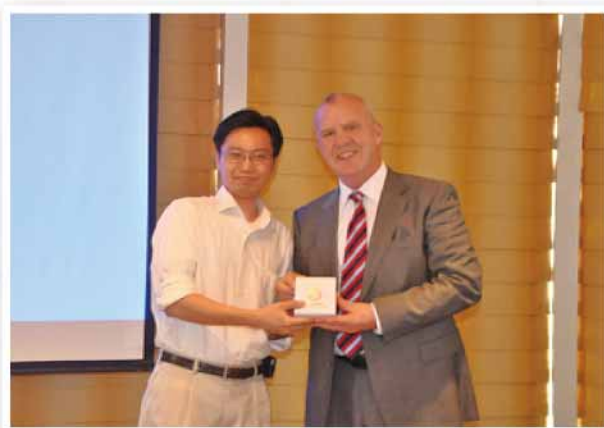
Professor Ken Thomson



Professor Simon Yu

In the second part of the seminar, Professor Simon Yu, who is very familiar to all of us for his renowned expertise in tumour ablation and insightful contribution in research, shared his latest experience in utilization of the robot-assisted CT navigation system and the use of irreversible electroporation in treatment of different kinds of tumours. Professor Yu led us through a number of cases performed by his team, highlighting the preprocedural planning, technical aspects during procedures and the treatment outcomes with follow-up.

This was a truly fruitful and enlightening seminar, opening our eyes to the technology of irreversible electroporation as well as the use of the new navigation system. I would like to take this opportunity to express our heartfelt gratitude to Dr. Ken Thomson, Professor Simon Yu, the Hong Kong College of Radiologists and the organizing team for making this seminar a great success. Special thanks were also given to Perfint Healthcare for sponsoring this event. ✍️



From left to right:
Dr. William Poon and Professor Ken Thomson



From left to right:
Dr. William Poon and Professor Simon Yu



Active participation by the audience during the seminar

The 8th Congress of Asian Society of Cardiovascular Imaging, 12th-14th June 2014

Dr. Barry S.T. Leung, Dr. Sherwin S.W. Lo, Pamela Youde Nethersole Eastern Hospital



Being one of the major highlights in every year's calendar of cardiovascular imaging in Asia, the 8th Congress of Asian Society of Cardiovascular Imaging (ASCI 2014) was successfully held on the beautiful island of Jeju in Korea from 12th to 14th June 2014.

Following the success of the Congress in previous years, the ASCI 2014 has attracted over 500 local and international delegates to join this important annual event. There were a total of about 20 radiologists and cardiologists representing various institutes in Hong Kong participating in the ASCI 2014.

The theme selected for the ASCI 2014 was 'Heartbeat for quantum jump in cardiovascular imaging'. Through its highlight sessions, update and review sessions, case presentations, scientific sessions and poster exhibitions, the ASCI 2014 offered a comprehensive coverage of different topics in the rapidly evolving world of cardiovascular imaging. In addition, there were also joint scientific sessions co-organized by the European Society of Cardiac Radiology (ESCR), the Society for Cardiovascular Magnetic Resonance (SCMR) and the Society of Cardiovascular Computed Tomography (SCCT). From basic image viewing and interpretation to advanced techniques such as T1 mapping and non-invasive FFR-CT, over 70 loco-regional faculties and renowned international experts have shared their valuable knowledge and experiences with all the

delegates. Some of our Hong Kong delegates also had the chance to share their own experience through oral presentation and poster exhibitions.

The ASCI 2014 has definitely contributed to the enhancement of scientific level and quality of cardiovascular imaging in the region. Other than the professional knowledge we have gained during the Congress, we also remembered the beautiful scenery of Jeju island and the hospitality of the local organizing committee. Next year's Congress of ASCI will be held in Kuala Lumpur in Malaysia from 11th to 14th June 2015, I am sure we all look forward to joining the Congress again next year. ✍



4th IDKD Intensive Course in Hong Kong, 28th-30th June 2014

Dr. Boris K.H. Tse, United Christian Hospital



The International Diagnostic Course Davos is a world-renowned professional development event for radiologists. It is well known for its system-based interactive lectures and workshops. Throughout this calendar year, they offer courses in Davos, Athens and Hong Kong.

The 4th IDKD in Hong Kong was held on 28th - 30th June in collaboration with the University of Hong Kong and Hong Kong College of Radiologists at the Hong Kong Convention and Exhibition Centre. The focus this year is musculoskeletal diseases.

Hundreds of local and international radiologists attended the event. Lectures and workshops were given by leading experts from the United States, Switzerland, Belgium, Canada, China, Korea and Hong Kong. There were multiple case discussion workshops on a range of MSK diseases. These covered commonly addressed joints, such as shoulder and knee, to less commonly discussed joints, such as elbow and wrist. Three thought-provoking highlight lectures on functional imaging, integration of Western and traditional Chinese medicine, and orthopaedic metallic artefacts

provided all participants with new insights into to MSK imaging.

This course provides opportunity to share knowledge between participants through interactive session. Moreover, participants are able to meet with colleagues from different parts of the world to share their experience. I thoroughly recommend all radiologists in training and those who are interested in MSK not to miss the opportunity to participate in this course.

In 2015, the Asia series will be held in Beijing with a specific focus on brain, head & neck and spine diseases. ✍️

One Day Conference: The Current State-of-Art in Cardiac MRI, 12th July 2014

Dr. Janice Ip, Queen Mary Hospital



The first Symposium of the Society for Cardiovascular Magnetic Resonance (SCMR) in Hong Kong, "The Current State-of-Art in Cardiac MRI", was held on 12th July 2014 at the Langham Hong Kong. The symposium was jointly organized by the SCMR, the Hong Kong College of Cardiology (HKCC) and the Hong Kong College of Radiologists (HKCR). The Society for Cardiovascular Magnetic Resonance (SCMR) is the leading renowned international representative and advocate for all physicians, scientists, and technologists working in cardiovascular MRI to improve patient outcomes through excellence in education, training, research and development. The Symposium attracted over 270 delegates from Hong Kong and all over the world. Cardiologists, radiologists, radiographers, physicists and other healthcare professionals were brought together from all over the world to this important forum to review and discuss all aspects of cardiovascular magnetic resonance (CMR).

Cardiovascular disease accounts for nearly one-third of all global deaths and it is also a significant issue in Hong Kong. Uses of CMR are on the rise, since MRI allows comprehensive exams, which include the quantitative assessment of size, morphology, function, and tissue characteristics in one single session. CMR has a promising future development as there are more efficient scans, increasing availability of scanners, more widespread knowledge about its clinical application and rapid advancement of technology. The SCMR Hong Kong Symposium provided the latest updated information on a wide range of topics related to CMR. It promoted scientific exchanges among physicians, scientists, technologists, and interested healthcare partners who focus on clinical applications and researches in CMR.

It was my great pleasure to attend this symposium, which was a unique opportunity for me to learn from the eminent speakers and distinguished experts in cardiovascular imaging not only on how to enhance the accuracy, efficiency, and effectiveness of cardiovascular MRI through technological advances, but also on how to maximize clinical effectiveness of cardiovascular MRI through coordinated comparative research efforts. We had lectures on how CMR works (including topics on perfusion, late gadolinium enhancement, cine and flow studies, MR angiographies with and without contrast agents) and uses of CMR in daily practices (including in ischaemic heart disease, acute coronary syndromes, congenital heart diseases, arrhythmias, myocarditis and non-ischaemic cardiomyopathy), which covered almost all aspects in CMR in an one-day symposium. I would like to take this opportunity to express my heartfelt gratitude and congratulations to the organizing committee, SCMR, Hong Kong College of Cardiology and my home college, the Hong Kong College of Radiologists, for their well-organized, successful and educational symposium. 🖋️



Breast Imaging 2014: A Workstation-based Interactive Course on Early Breast Cancer Detection and Diagnosis, 28th-30th July 2014

Dr. Lily K.M. Wong, Kwong Wah Hospital



From left to right: Dr. Eliza P.Y. Fung, Dr. Gladys Lo, Dr. Gilda Cardenosa, Dr. Tina P.W. Lam, Dr. Michael N. Linver and Dr. C.Y. Lui

This three-day interactive course on early breast cancer detection and diagnosis was held on 28th to 30th July 2014 in Hong Kong and was co-organized by the International Institute for Continuing Medical Education, Inc (iiCME) and the Hong Kong College of Radiologists for the first time. It was well attended by over 100 local and overseas participants who specialized in the imaging, surgical or oncological aspects of breast diseases.

The first part of the course consisted of 24 lectures presented by the program director, Dr. Michael N. Linver and a world-class faculty including Dr. Gilda Cardenosa, Dr. Eliza P.Y. Fung, Dr. Tina P.W. Lam, Dr. Gladys Lo and Dr. C.Y. Lui. The lectures covered a balanced overview of traditional breast imaging, blended with the latest techniques such as breast tomosynthesis, contrast-enhanced mammogram, elastography, MRI- guided biopsy and USG-guided excisional biopsy.

It was a great experience to learn from all the breast imaging experts from local and overseas faculties. The lectures contained a lot of up-to-date information that helped to improve my daily practice as a breast radiologist involving in both breast screening and diagnostic service. For instance, Dr. Linver, Dr. Fung and Dr. Lui elaborated on the application and additional benefits of using tomosynthesis for early

cancer detection quoting the results of a number of large-scale international studies. Given the undeniable benefits of tomosynthesis (higher cancer detection rate, lower call-back rate), we are definitely expecting a rising demand and trend for the tomosynthesis usage. Moreover, Dr. Lui's lecture on radiofrequency excision provided in-depth comparison between vacuum-assisted biopsy and radiofrequency excision. He also shared a lot of tips on both techniques based on his abundant personal experience. These had given me insight and would help me tackle difficulties in USG-guided excisional biopsy in my practice.

The second part of the course was conducted in the form of interactive workshop. Participants were given time to study 100 mammogram cases at workstations on their own. After which the cases were reviewed with Dr. Linver and Dr. Cardenosa. The workshop helped tremendously in enhancing participants' early cancer detection power and accuracy. I also found the interactive workshop coupled with detailed explanations especially useful.

The course contained valuable knowledge for both breast radiologists and general radiologists who have interest in this area. It has created a platform for academic interflow and ideas exchange. We would like to thank the iiCME and HKCR for co-organizing this event and are looking forward to the next breast imaging course in Hong Kong. ✍️



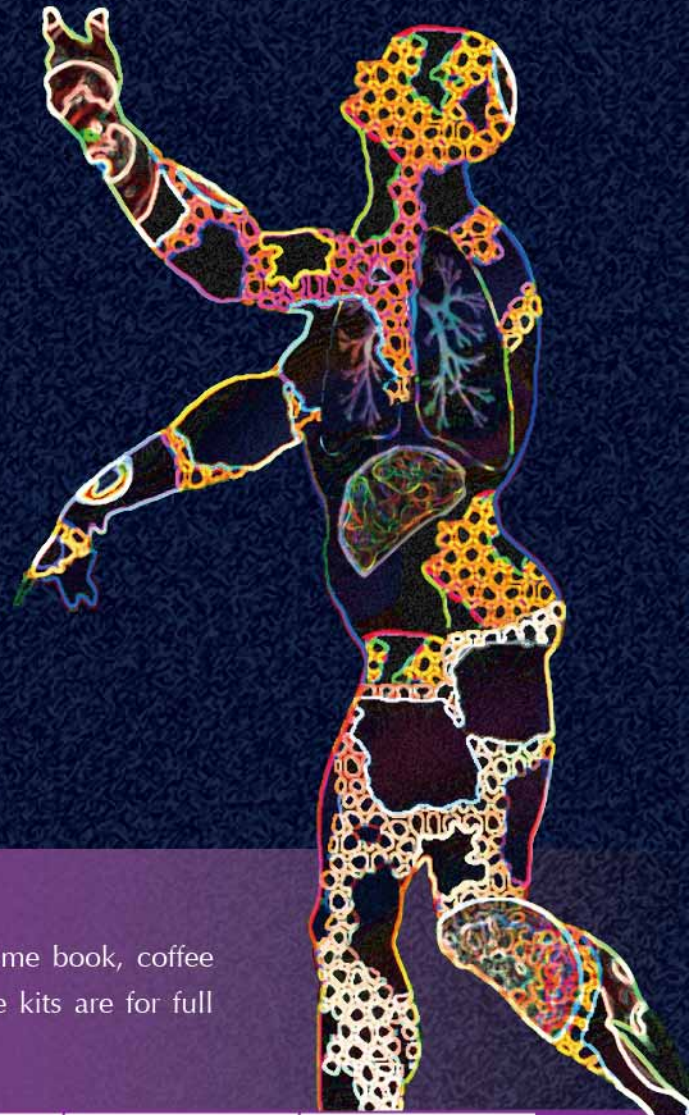
Forthcoming College's Scientific Activities: 22nd Annual Scientific Meeting of HKCR, 1st - 2nd November 2014



22nd Annual Scientific Meeting of Hong Kong College of Radiologists

The scientific programme with subspecialty focus on Bone and Soft Tissue Tumours and Carcinoma of Lung. We are very honoured to have eminent speakers to join our Annual Scientific Meeting this time in Hong Kong. The overseas and local faculty are experts in the disciplines of radiology, clinical oncology and nuclear medicine. As technology and information are moving forward at a very fast pace, it is important for healthcare workers to constantly update ourselves on the information and to arm ourselves with the most appropriate techniques in our delivery of service.

We are confident that all participants will benefit from this opportunity to update their knowledge and in keeping up with recent advancement in the various subspecialties of Radiology, Clinical Oncology and Nuclear Medicine.



REGISTRATION FEE

Registration fees for delegates include a copy of programme book, coffee breaks and lunch during the meeting period. Conference kits are for full registrants only. All bank charges must be pre-paid.

	Fellows & members of RCR or HKCR	Radiographers, Medical Physicists and Nurses	Other Physicians	Students
Full Registration (2 Days)	HKD 1,800 / USD 260	HKD 1,400 / USD 200	HKD 2,400 / USD 340	HKD 1,000 / USD 150
Day Registration	HKD 900 / USD 130	HKD 700 / USD 100	HKD 1,200 / USD 170	HKD 500 / USD 75
Dinner of the Colleges on 1 November 2014	HKD 300 / USD 50			

CME/CPD ACCREDITATION

Academic Accreditations	CME/CPD Points		
	1st November 2014	2nd November 2014	Whole Function
The Royal College of Radiologists	7 (Category I)	6 (Category I)	13 (Category I)
Hong Kong College of Radiologists	7 (Cat. A)	5.5 (Cat. A)	12.5 (Cat. A)
The Hong Kong College of Anaesthesiologists	6.67 (non-Ana Passive)	5.83 (non-Ana Passive)	12.5 (non-Ana Passive)
Hong Kong College of Community Medicine	6	6	10 (Max.)
College of Dental Surgeons of Hong Kong	6.5 (Cat. B)	6 (Cat. B)	12.5 (Cat. B)
Hong Kong College of Emergency Medicine	6 (PP)	5.5 (PP)	11.5 (PP)
The Hong Kong College of Family Physicians	5 (Cat. 5.2)	5 (Cat. 5.2)	10 (Cat. 5.2)
Hong Kong College of Obstetricians & Gynaecologists	-	-	5 (non O&G passive)
College of Ophthalmologists of Hong Kong	3 (passive)	2.75 (passive)	Max. 4 (passive)
College of Orthopaedic Surgeons	4 (Cat. B)	0 (Cat. B)	4 (Cat. B)
The Hong Kong College of Otorhinolaryngologists	3.5 (Cat. 2.2)	3 (Cat. 2.2)	6.5 (Cat. 2.2)
Hong Kong College of Paediatricians	6 (Cat. A)	6 (Cat. A)	12 (Cat. A)
The Hong Kong College of Pathologists	3 (PP)	3 (PP)	6 (PP)
Hong Kong College of Physicians	1.5	1	2.5
The Hong Kong College of Psychiatrists	6 (PP/OP)	5.5 (PP/OP)	11.5 (PP/OP)
The College of Surgeons of Hong Kong	6 (passive)	5.5 (passive)	11.5 (passive)
MCHK CME Programme	5 (passive)	5 (passive)	10 (passive)
Radiographer Board of Hong Kong	A maximum of 10 CPD credits [5 CPD credits for 1st November 2014, 5 CPD credits for 2nd November 2014]		

Please remember to register for your CME/CPD points on both days of the meeting.

We look forward to your participation and support!

For scientific programme and further details of the meeting, please contact the College Secretariat or visit our College website at <http://www.hkcr.org>

HKCR SECRETARIAT:

Hong Kong College of Radiologists

Room 909, 9/F, Hong Kong Academy of Medicine Jockey Club Building

99 Wong Chuk Hang Road, Aberdeen, Hong Kong

Tel: (852) 2871 8788 Fax: (852) 2554 0739 E-mail: Enquiries@hkcr.org Homepage: <http://www.hkcr.org>

Forthcoming College's Scientific Activities: Special College Functions on 1st November 2014

(Joint Admission Ceremonies, Ho Hung Chiu Lecture & Dinner of the Colleges)

Special College Functions on 1st November 2014

Our College has great pleasure in inviting you to our special functions in the evening of 1st November 2014 (Saturday) at Hong Kong Academy of Medicine Jockey Club Building. *You are most welcome to bring your family and friends to share these memorable occasions with us.*

The programme of the evening is as follows:

Date:	1 st November 2014 (Saturday)
Venue:	Run Run Shaw Hall, 1/F, Hong Kong Academy of Medicine Jockey Club Building 99 Wong Chuk Hang Road, Aberdeen, Hong Kong SAR
Programme:	5:30pm Cocktail Reception (<i>Exhibition Hall, G/F</i>) 6:00pm The 14 th Joint Ceremonies for Admission of New Fellows 7:00pm The 15 th Ho Hung Chiu Lecture 7:30pm Cocktail Reception (<i>Foyer, 1/F</i>) 8:00pm Dinner of the Colleges

The Fourteenth Joint Ceremonies for Admission of New Fellows

Hong Kong College of Radiologists will be holding our Fourteenth Joint Ceremonies for the Admission of New Fellows at 6:00pm at Run Run Shaw Hall of HKAM Jockey Club Building. This event will be an excellent opportunity for you to meet with local and overseas colleagues of our profession, and to show your support for and to congratulate the newly admitted Fellows.



The Fifteenth Ho Hung Chiu Lecture

Our College is honoured to have

Professor Gabriel M Leung, GBS
Dean, Li Ka Shing Faculty of Medicine
The University of Hong Kong, Hong Kong SAR, China

to deliver the lecture entitled

The Grand Consilience

Dinner of the Colleges

The dinner will be held after the 15th Ho Hung Chiu Lecture. With heavy subsidy from the College, it will only be a nominal fee **HK\$300** per head to participate in the dinner.

To facilitate our arrangement, please register early by returning the registration form to Conference Department of Hong Kong Academy of Medicine, and your crossed cheque made payable to '**HONG KONG ACADEMY OF MEDICINE**', **on or before 17th October 2014**.

For enquiries of registration, please contact:

Conference Department
Hong Kong Academy of Medicine
Room 808, 8/F, HKAM Jockey Club Building, 99 Wong Chuk Hang Road, Aberdeen, Hong Kong SAR, China
Attention: Registration Secretariat of HKCR 22nd ASM
Tel: (852) 2871 8787 Fax: (852) 2871 8898 Email: HKCR@hkam.org.hk

For updated information, please visit our College's website: <http://www.hkcr.org>

Leisure Corner

Looking Back: Highlights from the History of Radiology

Dr. Shiobhon Luk, Pamela Youde Nethersole Eastern Hospital

This is the third issue of a series called "Looking back: Highlights from the History of Radiology". In this issue, we will present another important milestone in the evolution of radiology – the invention of computed tomography (CT). We will illustrate how this innovative imaging modality has developed in the past few decades.

Part 3: The Story of CT

The birth of CT

Up until the early 1970s, about 75 years after the discovery of x-rays, diagnostic imaging relied mostly on plain radiography. Given the limited information that could be obtained by conventional radiography, it was not easy to evaluate the internal soft tissue structures of the body in detail.

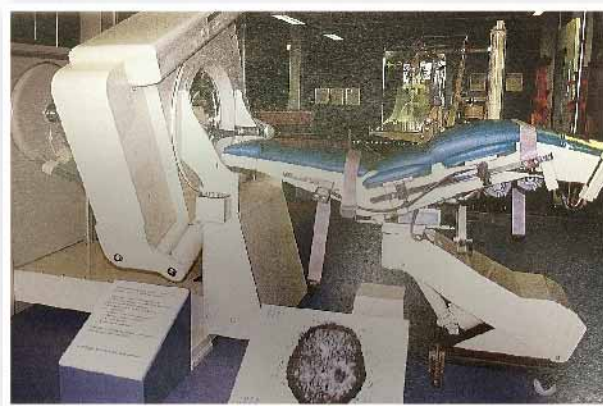
In the 1930s, there were attempts to modify plain radiography techniques to obtain more detailed information on specific layers of the body. The technique of tomography was then developed, producing images of selected layers of body structures. Initial tomographs were often performed in the longitudinal plane. The technique of transverse tomography was subsequently developed and this foreshadowed the development of CT.

The medical and scientific community continued to further develop the idea of transverse tomography. Early experiments were carried out by Sir Godfrey Hounsfield, a British scientist, and his team at the central research laboratories of EMI to investigate the concept of reconstructing an image of internal structures of the body using a series of x-ray readings. Their experiments were based on the work of Professor Alan Cormack, a South African physicist who demonstrated the feasibility of CT in the 1950s. Initial experiments were performed using Perspex blocks of varying density, then with pig specimens and later with human brain specimens.

The first successful patient examination using computerized axial tomography was performed in

1971 at the Atkinson Morley Hospital. In 1972, Sir Godfrey Hounsfield and Dr Jamie Ambrose, a British radiologist, presented their paper on computerized axial tomography at the 32nd Annual Congress of the British Institute of Radiology.

The information about this fascinating invention of CT spread quickly throughout the world. The medical community was excited about the amazing ability of CT to produce cross-sectional images of the brain and its diagnostic potential. These early types of CT scanners were soon acquired in many countries, significantly contributing to improvement in patient management. The first CT scanners developed by Hounsfield took several hours to acquire raw data of a single slice and took days to reconstruct a single image from this raw data.



A CT scanner developed by Godfrey Hounsfield and British company EMI in the early 1970s. Image adapted from Röntgen Centenary Congress & the Hong Kong College of Radiologists Third Annual Scientific Meeting booklet

Due to technical limitations, the prototype CT scanner had a very small scanner gantry, just capable of scanning the brain. The world's first documented CT scan of the body was performed on one of Sir Hounsfield's research team members, who was small enough to fit inside the head scanner gantry. With further technological advancement, CT scanners with gantry apertures large enough for imaging the entire human body were developed. However, the resolution of these early body CT scanners was poor, the image acquisition time was long and respiratory motion artifact was a significant problem.

The march of progress

In the mid 1980s, significant advancement was made in image acquisition techniques with the development of helical (continuous rotating) and multi-slice CT scanners.

The successful development of helical CT scanners was largely due to an innovation called the power slip ring. The power slip ring system allowed electric power to be transferred from a stationary power source to a continuously rotating gantry. Prior to the introduction of this new system, prototype CT scanners used a large x-ray cable and drum system. Scanning by these prototype CT scanners was slow as the scanner had to stop and reverse the direction of rotation for every few degrees of rotation due to the finite length of the attached cables. This new power slip system enabled helical scanners to rotate continuously and patients could be moved past an array of detectors in the CT scanner within a short period of time. Data at multiple adjacent levels could be collected continuously and quickly.

Multi-slice CT was another significant innovation whereby multiple slices can be acquired during one rotation of the x-ray tube. Multi-slice CT enabled scanning to be performed much faster with a larger coverage and less patient motion artifact. It also allowed data to be acquired in much thinner slices which in turn allowed high quality multi-planar and three-dimensional reconstructions with high spatial resolution.

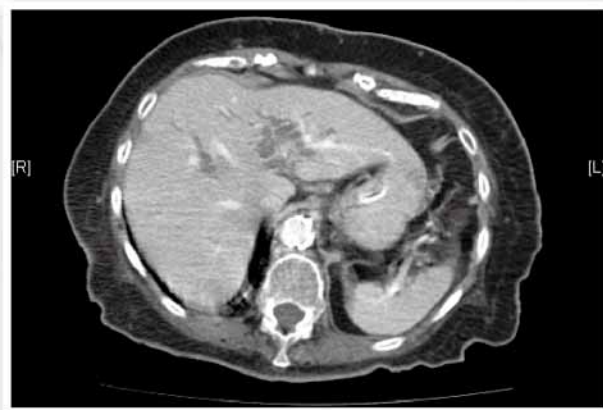
With the significant advancement in image acquisition techniques, enormous amount of anatomical information could be obtained in each CT slice. Advancement in computer technology and data manipulation techniques in the past few decades made it possible to process the huge amount of data collected in each CT examination, allowing accurate visualization of body structures and allowing CT images to be reconstructed in various planes.



Coronal-reconstructed CT image of the thorax, abdomen and pelvis. Multi-planar reconstruction offers accurate evaluation of anatomy and various pathologies in multiple planes.



CT examination of the abdomen in the early 1980s. (Image adapted from the Radiology 2000 Hong Kong International Congress booklet).



CT examination of the abdomen in the early 2010s. Significant improvement in spatial and contrast resolution has been achieved in the recent decades.

Early history of CT in Hong Kong and the modern era

The acquisition of CT scanners in Hong Kong had been rapid and closely followed the pace of advancement in the international community. In 1977, the first CT scanner was installed in St Paul's Hospital and Hong Kong Baptist Hospital. The second CT scanner on Hong Kong Island (GE 8800) was installed in Hong Kong Sanatorium and Hospital in 1981. Early 'head' CT scanners also began operation in various public hospitals in the early 1980s and a 'Head' CT scanner was acquired in Kwong Wah Hospital in 1982. CT scanner also began operation in Queen Mary Hospital in 1983.

These early 'Head' CT scanners were largely replaced by body scanners in the late 1980s and early 1990s. In 1990, the 'head' CT scanner in Kwong Wah Hospital was replaced by a whole body CT. In the mid 1990s, several helical CT scanners were installed in various hospitals in Hong Kong, including the installation of helical CT scanners at Prince of Wales Hospital and Queen Mary Hospital in 1994, a helical CT scanner in Queen Elizabeth Hospital in 1996 and in Kwong Wah Hospital in 1997. In the late 1990s and early 2000s, various hospitals in Hong Kong began installing multi-slice helical CT scanners, including the installation of a multi-slice helical scanner in Queen Mary Hospital in 1999 which was the first of its kind in a public hospital in Hong Kong. Nowadays, CT has become an indispensable diagnostic tool in every major hospital in Hong Kong.

Continuous advancement of CT scanners has also been made in the recent decade, with the latest high-speed CT scanners producing very thin slices with fine details in just one breath hold and reconstructing the image from millions of data points in less than one second. Advanced application of CT is also made possible, such as in perfusion and functional examinations. Great progress has been achieved in the development of cardiac CT, which is made possible with the significant improvement in

temporal, spatial and contrast resolution of modern CT. With the recent improvement of CT scanner technology and development of 3D computerized reconstruction techniques, CT virtual endoscopy has been invented and CT colonoscopy has now become a widely used examination. Apart from being an important diagnostic tool, CT also plays an important role in image-guided interventions, surgical and radiotherapy planning. Tremendous research and development has also been made in recent years to provide excellent image quality while using the lowest possible radiation dose.

The development of CT is one of the many significant technological achievement in the history of radiology. The usefulness of CT was proven repeatedly in the past few decades since its introduction and CT has become one of the most commonly used imaging tools in the modern era. In the next issue, we will introduce other important innovations in the history of radiology, hopefully providing some more fascinating insights into the story of radiology.

Reference:

1. Radiology 2000 Hong Kong International Congress booklet
2. Rontgen Centenary Congress & the Hong Kong College of Radiologists Third Annual Scientific Meeting booklet
3. Hong Kong College of Radiologists 15th Anniversary Celebration booklet
4. The Story of Radiology, published by the European Society of Radiology in cooperation with the International Society for the History of Radiology and Deutsches Rontgen Museum, October 2012
5. Heitzman ER. Thoracic Radiology: The Past 50 years. Radiology 2000;214:309-313 

Our College has the following numbers of members as at 31 July 2014:

Status	Number	Status	Number
Honorary Fellow	15	Trainee Member	28
Honorary Member	6	Associate Member	1
Fellow	465	Total	657
Member	142		

List of Fellows admitted from 18 December 2013 till 31 July 2014:

Admission date	Name	Specialty	Training Center
28 January 2014	CHAN Wing Lok	CO	QMH
28 January 2014	CHO Kwan Yin	RD	QMH
28 January 2014	FANG Xin Hao Benjamin	RD	QMH
28 January 2014	FUNG Kai Pong Vincent	RD	PYNEH
28 January 2014	HO Grace	RD	QMH
28 January 2014	KUNG Boom Ting	NM	QEH
28 January 2014	KWOK Yuen Lam	CO	QEH
28 January 2014	LAM Cheuk Hang Sunny	RD	KWH
28 January 2014	LEE Ka Lok	RD	PWH
28 January 2014	LEUNG On Cheung	RD	TMH
28 January 2014	LI Wing Sum	CO	QEH
28 January 2014	LIM Mei Ying	CO	PMH
28 January 2014	LUK Yiu Shiobhon	RD	PYNEH
28 January 2014	MUI Wing Ho	CO	TMH
28 January 2014	NYAW Shi Feng	CO	TMH
28 January 2014	PAN Nin Yuan	RD	KWH
28 January 2014	SHE Hoi Lam Helen	RD	QMH
28 January 2014	TAM Ka Ying	RD	NDH
28 January 2014	TAM Yee Na	RD	NDH
28 January 2014	TSANG Wai Kan	RD	TMH
28 January 2014	WAN Yu Hon	RD	PYNEH
28 January 2014	WONG Wai Yin	RD	QMH
25 March 2014	CHAN Ka Chi	RD	PWH
29 July 2014	HO Sai Chung	RD	NDH
29 July 2014	LUI Pui Yan	RD	NDH

List of Members admitted from 18 December 2013 till 31 July 2014:

Admission date	Name	Specialty	Training Center
28 January 2014	YU Ka Tung Stanley	CO	QEH
27 May 2014	CHAU Chi Man	RD	PMH
27 May 2014	KAM Tsz Yeung	CO	PYNEH
27 May 2014	LAU Tsz Shan	CO	PMH
27 May 2014	LEUNG Lai Kwan Queenie	CO	PYNEH
27 May 2014	WONG Chun Yin	CO	PYNEH
27 May 2014	WONG Wai Lam	RD	UCH
27 May 2014	YU Wen Ming	RD	UCH
24 June 2014	CHAN Rois L.S.	RD	PMH
24 June 2014	LEE Ying Cheong	RD	PMH
24 June 2014	NG Wing Kei Carol	RD	PMH
24 June 2014	WAI Ka Heng Ophelia	RD	UCH

List of Trainee Members admitted from 18 December 2013 till 31 July 2014:


Admission date	Name	Specialty	Training Center
25 February 2014	LAI Terence Kin Bong	RD	PMH
25 March 2014	WONG Sean Man Natalie	CO	TMH

Erratum

An erratum for Hong Kong College of Radiologists Winter Issue 2013 that identifies three errors as follow:

On page 41, it was mistakenly stated that Dr. CHIANG Jeanie Betsy is from Queen Mary Hospital in "The HKSDR Trust Fund Award for the Best Oral Presentation in Radiology". Dr. CHIANG is from Department of Radiology & Imaging of Queen Elizabeth Hospital.

On page 33, Dr. LEUNG Kwong Chuen was mistakenly omitted from membership list of Scientific Subcommittee. Dr. LEUNG is the member of Clinical Oncology Specialty in Scientific Subcommittee.

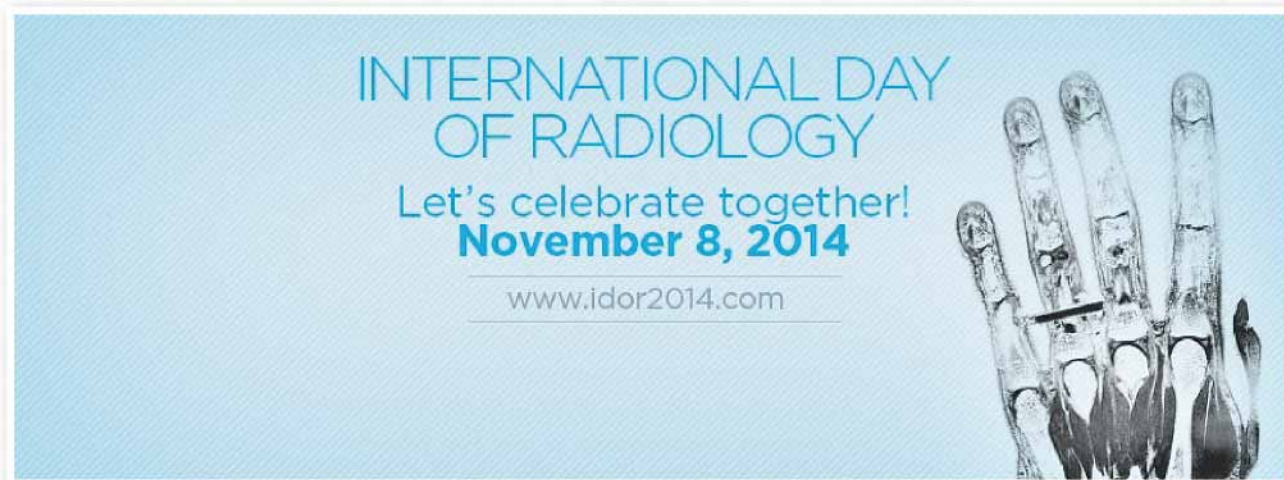
On page 36, Dr. CHAN Wai was mistakenly listed under the Radiology Specialty. Dr. CHAN is being trained in the Department of Clinical Oncology in Tuen Mun Hospital. 

Forthcoming Meetings in 2014-15

Date	Event	Venue	Website
22-25 October 2014	46th Congress of the International Society of Paediatric Oncology (SIOP 2014)	Toronto, Canada	http://siop-online.org/page/congresses
8-11 October 2014	70th Korean Congress of Radiology (KCR 2014) and Annual Delegate Meeting of The Korean Society of Radiology	Seoul, Korea	www.kcr4u.org
16-18 October 2014	12th Asian Breast Disease Association Teaching Course & 4th Jakarta World Federation for Ultrasound in Medicine and Biology – Centre of Excellence seminar	Bali, Indonesia	www.abda-coe2014.com
18-22 October 2014	EANM'14 - 27th Annual Congress of the European Association of Nuclear Medicine	Gothenburg, Sweden	http://eanm14.eanm.org/
1-2 November 2014	22nd Annual Scientific Meeting of Hong Kong College of Radiologists	Hong Kong SAR, China	www.hkcr.org
30 November – 5 December 2014	Radiological Society of North America Annual Meeting 2014 (RSNA 2014)	Chicago, USA	www.rsna.org
3-6 December 2014	UICC World Cancer Congress 2014	Melbourne, Australia	www.worldcancercongress.org
9-13 December 2014	37th Annual San Antonio Breast Cancer Symposium (SABCS)	San Antonio, USA	www.sabcs.org
4-8 March 2015	European Congress of Radiology (ECR 2015)	Vienna, Austria	http://www.myesr.org/
9-10 March 2015	Society of Abdominal Radiology (SAR) 2015 Annual Scientific Meeting	California, USA	http://www.abdominalradiology.org/
17-20 April 2015	45th Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine	Brisbane, Australia	http://www.anzsnm2015.com.au/
22-25 April 2015	German Society of Nuclear Medicine Annual Congress 2014	Hannover, Germany	http://www.nuklearmedizin2015.de/
24-28 April 2015	3rd ESTRO Forum	Barcelona, Spain	http://www.estro.org/
29 May – 2 June 2015	American Society of Clinical Oncology Annual Meeting 2015 (ASCO 2015)	Chicago, USA	http://www.am.asco.org/

International Day of Radiology – IDoR 2014

An initiative of the ESR, RSNA and ACR




This year, on November 8, the **European Society of Radiology (ESR)**, the **Radiological Society of North America (RSNA)** and the **American College of Radiology (ACR)** celebrated the **third International Day of Radiology (IDoR 2014)**, with radiological societies the world over, including Hong Kong College of Radiologists. This follows the successful second International day of Radiology in 2013, which was held with the aim of building greater awareness of the value that radiology contributes to safe patient care, and improving understanding of the vital role radiologists play in the healthcare continuum.

November 8, the day that Wilhelm Conrad Röntgen discovered the existence of x-rays in 1895, was chosen as a day of action and awareness. **Brain imaging** had been chosen as the main theme of the day, to highlight the important role that radiology plays in the detection, diagnosis and management of a wide variety of brain diseases. A special booklet on brain imaging is being produced especially for IDoR 2014 which is written by the European Society of Radiology (ESR) and the European Society of Neuroradiology (ESNR). A third booklet, on the story of radiology is under preparation with the International Society for the History of Radiology (ISHRAD).

The day was a **joint initiative** of the ESR, the RSNA and the ACR, with the full cooperation and involvement of the International Society of Radiology (ISR), as well as umbrella organisations on all continents, including the Asian Oceanian Society of Radiology (AOSR), the Colegio Interamericano de Radiología (CIR), the Royal Australian and New Zealand College of Radiologists (RANZCR), and the Radiological Society of South Africa (RSSA – which also represents neighbouring countries). The European Federation of Radiographer Societies (EFRS) also supports the International Day of Radiology.

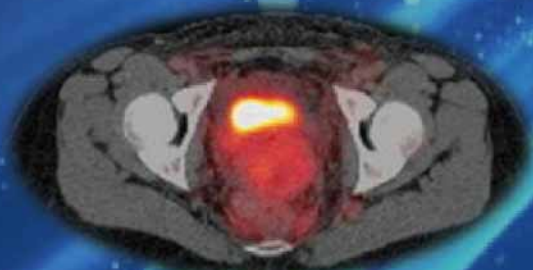
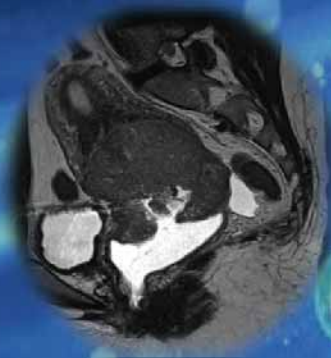
More information about the International Day of Radiology can be found on the official website at <http://internationaldayofradiology.com>.

You can also keep right up to date with the latest news by liking the International Day of Radiology Facebook page, and show your support by joining the official Facebook event page. 



**2ND JOINT MEETING OF
INTERNATIONAL CANCER IMAGING SOCIETY &
HONG KONG COLLEGE OF RADIOLOGISTS**

**CANCER MANAGEMENT:
FROM DIAGNOSIS
TO TREATMENT**



**31 JANUARY - 1 FEBRUARY 2015
(SATURDAY & SUNDAY)**

**HKAM JOCKEY CLUB BUILDING
HONG KONG SAR**

HKCR website: www.hkcr.org

ICIS website: www.icimagingociety.org.uk

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