

PRE-CONGRESS PROGRAM

TUESDAY 11 DECEMBER 2012

8.00 Registration

Radiotherapy

Room *Sawankhalok*

Moderators: *Lalida Tantipumiamorn/Puangpen Tangboonduangjit*

08.30-09.30 COMPASS 3D PATIENT PLAN VERIFICATION FOR IMRT AND
ROTATIONAL THERAPY [Presentation1](#)

Moses King Mendoza Full Paper [Abstract](#) [Presentation2](#)

09.30-10.30 TECHNOLOGY DEVELOPMENT IN QA AND DOSIMETRY

Max Tang Full Paper [Abstract](#) [Presentation](#)

10.30-11.00 Morning tea

11.00-12.00 A NEW ERA IN 4D PATIENT IMRT QA

Edmund La Full Paper [Abstract](#) [Presentation](#)

12.00-12.15 DISCUSSION

Lalida Tantipumiamorn

12.15-13.00 Lunch

13.00-13.30 UNCERTAINTIES IN RADIOTHERAPY TARGETING AND THE
DETERMINATION OF MARGINS

Tomas Kron Full Paper [Abstract](#) [Presentation](#)

13.30-17.30 COMMISSIONING OF MODERN ACCELERATOR

Joseph Ting Full Paper [Abstract](#) [Presentation](#)

18.30-22.30 **WELCOME PARTY SPONSORED BY BUSINESS ALIGNMENT
@ GREEN LAKE RESORT CHIANGMAI**

**& CERTIFICATION DIAGNOSTIC RADIOLOGY MEDICAL
PHYSICIST: IAEA CLINICAL TRAINING**

Prof. Rethy K. Chhem, Director, Division of Human Health, IAEA

Medical Imaging

Room *Srinakorn*

Moderators: *Anchali Krisanachinda/Napapong Pongnapang*

08.30-09.10 MAKING A DIFFERENCE IN THE WORLD: WORK OF THE IAEA IN
MEDICAL RADIATION PROTECTION

M. M. Rehani Full Paper [Abstract](#) [Presentation](#)

- 09.10-09.50 INTERNATIONAL ACTIONS ON RADIATION PROTECTION IN
FLUOROSCOPY OUTSIDE RADIOLOGY DEPARTMENTS
M. M. Rehani Full Paper Abstract [Presentation](#)
- 09.50-10.00 Morning tea
- 10.00-12.00 THE APPLICATION OF IMAGE J IN DIAGNOSTIC IMAGING
Katsumi Tsujioka Full Paper Abstract [Presentation](#)
- 12.00-13.00 Lunch
- 13.00-13.30 REAL TIME DOSIMETRY FOR INTERVENTIONAL X-RAY HEALTH
PROFESSIONALS
Mikael Wanland Full Paper Abstract Presentation
- 13.30-16.30 ACCEPTANCE TESTING AND QUALITY ASSURANCE IN
DIAGNOSTIC RADIOLOGY: CT AND MRI
Kwan Hoong Ng Full Paper Abstract [Presentation](#)
Napapong Pongnapang
Ho-Ling Anthony Liu
- 16.30-17.00 BREAST DENSITY AND CANCER RISK
Kwan Hoong Ng Full Paper [Abstract](#) [Presentation](#)
- 18.30-22.30 **WELCOME PARTY SPONSORED BY BUSINESS ALIGNMENT
@ *GREEN LAKE RESORT CHIANGMAI*
& CERTIFICATION DIAGNOSTIC RADIOLOGY MEDICAL
PHYSICIST: IAEA CLINICAL TRAINING**
Prof. Rethy K. Chhem, Director, Division of Human Health, IAEA

CONGRESS PROGRAM

WEDNESDAY 12 DECEMBER 2012

- 07.30 Registration
Room *Sawankhalok*
- 08.30-09.00 OPENING CEREMONY
Chair: *Kwan Hoong Ng*
- 09.00-09.45 JOHN CAMERON MEMORIAL LECTURE “THE CONVERGENCE OF
IMAGING AND THERAPY”
Tomas Kron Full Paper [Abstract](#) [Presentation](#)
- Invited Lectures**
- 09.45-10.30 ROLES OF MEDICAL RADIATION PHYSICISTS IN RESPONSE TO
NUCLEAR ACCIDENTS: THE IAEA PERSPECTIVE
Rethy K. Chhem Full Paper [Abstract](#) [Presentation](#)

- 10.30-11.00 Coffee break
- 11.00-11.30 PRESIDENTIAL SYMPOSIUM ON “TRANSFORMATIONAL LEADERSHIP”
Kwan Hoong Ng [Full Paper](#) [Abstract](#) [Presentation](#)
- Chair:** *Surat Vinijorn*
- 11.30-12.00 QA IN ADVANCED TECHNIQUE
Joseph Ting [Full Paper](#) [Abstract](#) [Presentation](#)
- 12.00-13.00 Lunch (AFOMP EX COM/COUNCIL Meetings at VIP Reception Room)

Radiotherapy

Room *Sawankhalok*
Chair: *Somsak Wanwilairat*

Invited Lectures

- 13.00-13.45 MONTE CARLO COMPUTATIONAL TECHNIQUES IN RADIOTHERAPY
Franco Milano [Full Paper](#) [Abstract](#) [Presentation](#)
- 13.45-14.30 INTRODUCTION TO CHARGED PARTICLE THERAPY FOR MEDICAL PHYSICISTS
Shigekazu Fukuda [Full Paper](#) [Abstract](#) [Presentation](#)
- 14.30-15.00 Coffee break

Proffered Paper

Chair: *Chirapha Tannanontha*
Co-Chair: *Taweap Sanghangthum*

- 15.00-15.10 NATURAL CONTRAST ENHANCEMENT IN DRRs
J. M. Jensen, and D. Hebbinghaus [Full Paper](#) [Abstract](#) [Presentation](#)
- 15.10-15.20 DEVELOPMENT OF THE 4D CBCT PREDICTIVE MODELLING SOFTWARE
Dong-Su Kim, Tae-Ho Kim, Seong-Hee Kang, Jai-Woong Yoon, and Tae-Suk Suh [Full Paper](#) [Abstract](#) [Presentation](#)
- 15.20-15.30 THE ANALYSIS OF THE CUMULATIVE DOSE FOR ADAPTIVE IMRT USING CONE BEAM CT
Kunihiko Tateoka, Yuichi Saito, Tadanori Abe, Kazunori Fujimoto, Yuji Yaegashi, Akihiro Nakata, Takuya Nakazawa, Masaki Yano, and Koichi Sakata [Full Paper](#) [Abstract](#) [Presentation](#)

- 15.30-15.40 COMPARISON BETWEEN FERMI-EYGES (HOGSTROM MODEL) ALGORITHM CALCULATION AND MEASUREMENT ON PERCENTAGE DEPTH DOSE OF ELECTRON BEAM
Lukmanda Evan Lubis, and Djarwani S. Soejoko
[Full Paper](#) [Abstract](#) [Presentation](#)
- 15.40-15.50 STUDY OF DOSE RESPONSE FROM ND DOPED SILICA THERMOLUMINESCENCE DOSIMETER (TLD) IN RADIOTHERAPY TREATMENT
Rini Safitri, A. Shukri, and M.S. Jaafar [Full Paper](#) [Abstract](#) [Presentation](#)
- 15.50 -16.00 A TLD STUDY OF ACUROS XB FOR LUNG SBRT USING A LUNG SUBSTITUTE MATERIAL
R C X Soh, K W Ang, J H H Yap, and J C L Lee
[Full Paper](#) [Abstract](#) [Presentation](#)
- 16.00-16.10 THE ATTENUATION EFFECT OF TREATMENT COUCH IN ADVANCE RADIOTHERAPY TECHNIQUES
Narumol Ngeanthean, Sivalee Suriyapee, and Taweap Sanghangthum
[Full Paper](#) [Abstract](#) [Presentation](#)
- 16.10-16.20 IGRT COUCH CORRECTION STUDY FOR ACUROS XB USING ARCCHECK
Melvin M L Chew, K W Ang, J H H Yap, and J C L Lee
[Full Paper](#) [Abstract](#) [Presentation](#)
- 16.20-16.30 TREATMENT PLANNING OPTIMIZATION BY DOSE DISTRIBUTION SIMULATION FOR LEKSELL GAMMA KNIFE IN RADIOTHERAPY
Nguyen Cong Minh, Huynh Quang Linh, and Nguyen Thi Phuong An
[Full Paper](#) [Abstract](#) [Presentation](#)
- 16.30-16.40 COMPARISON BETWEEN EGSnrc AND gDPM MONTE CARLO DOSE CALCULATION
Yakub Aqib Bayhaqi, and Djarwani S. Soejoko
[Full Paper](#) [Abstract](#) [Presentation](#)
- 16.40-16.50 STOPPING ANGLE AND DOSE MEASUREMENT IN ARC THERAPY WITH 6 AND 10 MV X-RAY BEAM
Dea Ryangga, and Djarwani S. Soejoko [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.50-17.00 STUDY OF BEAM DATA IN OPEN SOURCE PRISM FOR 6 MV PHOTON BEAM USING INHOMOGENEITY PHANTOM
Yati Hardiyanti, and Freddy Haryanto [Full Paper](#) [Abstract](#) [Presentation](#)
- 17.00-17.10 DELIVERED DOSE TO COLON IN INTRACAVITARY BRACHYTHERAPY TREATMENT OF CERVIX CANCER PATIENTS
Sugiyantari Soegijono, Juniarti Ardanus, and Djarwani S. Soejoko
[Full Paper](#) [Abstract](#) [Presentation](#)
- 18.30-22.30 **RECEPTION PARTY- CELEBRATE AFOMP, SEAFOMP DUODECENNIAL**
@ Pool Side, Khum Phu Come Hotel

Medical Imaging

Room **Srinakorn**

Chair: **Brian Thomas**

Symposium: **EDUCATION & TRAINING OF MEDICAL PHYSICS IN AFOMP**

- 13.00-13.15 EDUCATION AND TRAINING OF MEDICAL PHISICS IN JAPAN
 Kiyonari Inamura Full Paper [Abstract](#) Presentation
- 13.15-13.30 DEVELOPING MEDICAL PHYSICS EDUCATION IN SINGAPORE
 James C L Lee Full Paper [Abstract](#) [Presentation](#)
- 13.30-13.45 CLINICAL TRAINING OF MEDICAL PHYSICS IN THAILAND
 Anchali Krisanachinda Full Paper [Abstract](#) Presentation
- 13.45-14.00 CONTINUING PROFESSIONAL DEVELOPMENT FOR CLINICAL
 MEDICAL PHYSICISTS IN ASIA-OCEANIA
 Howell Round Full Paper [Abstract](#) [Presentation](#)
- 14.00-14.30 RAS6034-ONE STEP IN THE DEVELOPMENT OF MEDICAL PHYSICS
 IN SOUTH EAST ASIA
 Brian Thomas Full Paper [Abstract](#) [Presentation](#)
- 14.30-15.00 Coffee break

Proffered Paper

Chair: **Yoshie Kodera**

Co-Chair: **Kitiwat Khamwan**

- 15.00-15.10 DARK - COUNT - LESS PHOTON – COUNTING X RAY COMPUTED
 TOMOGRAPHY
 *Eiichi Sato, Osahiko Hagiwara, Hiroshi Matsukiyo, Akihiro Osawa, Toshiyuki
Enomoto, Manabu Watanabe, Shinya Kusachi, Shigehiro Sato, Akira Ogawa,
and Jun Onagawa* Full Paper [Abstract](#) [Presentation](#)
- 15.10-15.20 APPLICATION OF PSF-BASED VIRTUAL NODULES TO ASSESS THE
 PERFORMANCE OF LUNG CANCER CT SCREENING CAD SYSTEM
 *Janaka C Marasinghe, Masaki Ohkubo, Hajime Kobayashi, KoheiMuraao,
Toru Matsumoto, Shinji Niizuma, ShusukeSone, and Shinichi Wada*
 Full Paper [Abstract](#) [Presentation](#)
- 15.20-15.30 EVALUATION OF RENAL CYST PSEUDO-ENHANCEMENT AT
 VIRTUAL MONOCHROMATIC SPECTRAL IMAGING WITH FAST –
 kVp SWITCHING DUAL ENERGY 64-SLICE COMPUTED
 TOMOGRAPHY – A PHANTOM STUDY
 *Koichi Sugisawa, Katsuhiko Ichikawa, Kazuya Minamishima, and Masahiro
Jinzaki* Full Paper [Abstract](#) [Presentation](#)

- 15.30-15.40 DEVELOPMENT OF NEW EVALUATION METHOD FOR ITERATIVE RECONSTRUCTION (EVALUATION OF IMAGE NOISE AND SHARPNESS)
Katsumi Tsujioka, Ayako Gonaka, Rina Terauchi, Hironori Otsubo, and Yasukata Takahashi [Full Paper](#) [Abstract](#) [Presentation](#)
- 15.40-15.50 THE STUDY OF CONTINUITY USING AREA DETECTOR CT (ADCT) FOR NON-HELICAL SCAN AND HELICAL SCAN
Yujiro Doi, Tetsuya Hirokawa, Rina Terauchi, Ayako Gonaka, and Katsumi Tsujioka [Full Paper](#) [Abstract](#) [Presentation](#)
- 15.50-16.00 DEVELOPMENT OF SPIRAL MICRO HOLES PHANTOM TO MEASURE THE SLICE THICKNESS FOR MDCT
Rina Terauchi, Tetsuya Hirokawa, Yujiro Doi, Ayako Gonaka, Yasutomo Sato, Atsushi Shitashimizu, Misaki Taya, and Katsumi Tsujioka [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.00-16.10 COMPARISON OF CONVENTIONAL ITERATIVE RECONSTRUCTION AND DOUBLE TOTAL VARIATION (DTV) IN CT
Ayako Gonaka, Rina Terauchi, Katsumi Tsujioka, Hironori Otsubo, and Yasukata Takahashi [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.10-16.20 ANALYSIS OF DOSE DISTRIBUTION OF CT-SCANNER X-RAY ON EYES AND EARS USING CaSO₄ TLD
Johan Andoyo Effendi Noor, Angga Setyo Prayogo, and Unggul Pundjung Juswono [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.20-16.30 RADIATION DOSE AND RISK ESTIMATION IN PEDIATRIC HEAD CT EXAMINATION
Supawan Jivapong, Anchali Krisanachinda, Panruethai Trinavarat, and Siri-on Tritrakarn [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.30-16.40 STUDY OF THE ISOTROPIC SPATIAL RESOLUTION FOR IMAGE FILTER LINKED TO MPR DISPLAY ANGLE
Tetsuya Hirokawa, Yujiro Doi, Rina Terauchi, Gonaka Ayako, and Katsumi Tsujioka [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.40-16.50 OPTIMIZATION IN 64-MDCT OF THE CHEST USING TUBE CURRENT MODULATION BASED ON NOISE INDEX: PHANTOM STUDY
Pawana Inthibal, Anchali Krisanachinda, and Kiat Arjhansiri [Full Paper](#) [Abstract](#) [Presentation](#)
- 16.50-17.00 TOTAL VARIATION INPAINTING TECHNIQUE FOR REDUCING METAL ARTIFACT ON COMPUTED TOMOGRAPHY IMAGE
Titipong Kaewlek, Diew Koolpiruck, Saowapak Thongvigitmanee, Manus Mongkolsuk, Sastrawut Thammakittiphan, and Pipat Chiewvit [Full Paper](#) [Abstract](#) [Presentation](#)

- 17.00-17.10 EFFECT OF RECONSTRUCTION FILTER ON IMAGE IN DENTAL CONE BEAM CT
Yuuki Houno, Toshimitsu Hishikawa, Kenichi Goto, and Yoshie Koder
[Full Paper](#) [Abstract](#) [Presentation](#)
- 17.10-17.20 DEVELOPMENT OF PHOTODIODE MEASURING SYSTEM FOR X-RAY CT BEAM QUALITY
Shimpei Kondo, Shuji Koyama, and Takahiko Aoyama
[Full Paper](#) [Abstract](#) [Presentation](#)
- 18.30-22.30 **RECEPTION PARTY- CELEBRATE AFOMP, SEAFOMP DUODECENNIAL**
@ Pool Side, Khum Phu Come Hotel

THURSDAY 13 DECEMBER 2012

Room *Sawankhalok*
Chair: *Nisa Chawapun*

Invited Lectures

- 08.00-08.30 ASSESSING CLINICAL COMPETENCE OF MEDICAL PHYSICISTS
Brian Thomas [Full Paper](#) [Abstract](#) [Presentation](#)
- 08.30-09.00 IMAGE GUIDED APPLICATION IN RADIATION THERAPY
Tae-Suk Suh [Full Paper](#) [Abstract](#) [Presentation](#)
- 09.00-09.30 PATIENT SPECIFIC QUALITY ASSURANCE FOR STEREOTACTIC ABLATIVE BODY RADIOTHERAPY (SABR)
Tomas Kron [Full Paper](#) [Abstract](#) [Presentation](#)
- 09.30-10.00 COMPUTER ASSISTED RADIOLOGY AND SURGERY IN AFOMP
Kiyonari Inamura [Full Paper](#) [Abstract](#) [Presentation](#)
- 10.00-10.10 IOMP e-MEDICAL PHYSICS WORLD
Anchali Krisanachinda [Full Paper](#) [Abstract](#) [Presentation](#)
- 10.10-10.30 Coffee break

Radiotherapy

Room *Sawankhalok*
Chair: *Surat Vinijorn*

Refresher Course

- 10.30-12.00 FUNDAMENTAL TO ADVANCED RADIOTHERAPY TREATMENT TECHNIQUES
Puangpen Tangboonduangjit [Full Paper](#) [Abstract](#) [Presentation](#)
Taweap Sanghangthum [Full Paper](#) [Abstract](#) [Presentation](#)
Lukkana Apipunyasophon [Full Paper](#) [Abstract](#) [Presentation](#)
Wannapa Nopnob [Full Paper](#) [Abstract](#) [Presentation](#)
Sornjarod Oonsiri [Full Paper](#) [Abstract](#) [Presentation](#)
- 12.00-13.00 Lunch (SEAFOMP EX COM/COUNCIL Meetings at VIP Reception Room)

Proffered Paper

Chair: *Puangpen Tangboonduangjit*

Co-Chair: *Taweap Sanghangthum*

- 13.00-13.10 PREGNANCY AND RADIOTHERAPY - IS THERE AN ISSUE FOR FEMALE STAFF MEMBERS OCCUPATIONALLY EXPOSED TO RADIATION?
J. M. Jensen, C. Schroeder, F.-A. Siebert, and I. Fife
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.10-13.20 DOSIMETRIC VERIFICATION OF BASED PENCIL BEAM MODEL TREATMENT PLANNING SYSTEM FOR PHOTON BEAMS
M. Akhtaruzzaman, S. M. Enamul Kabir, G. A. Zakaria, and G. H. Hartmann
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.20-13.30 TREATMENT PLANNING VERIFICATION USING INDEPENDENT DOSE CALCULATION SOFTWARE
Vinh Cao Huu, Sivalee Suriyapee, Taweap Sanghangthum, Sornjarod Oonsiri, and Puntawa Oonsiri
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.30-13.40 RADIOTHERAPY ERROR DETECTION BY TREATMENT VERIFICATION DATA SHEET
Puntawa Oonsiri, Nuchara Naksawat, Panicha Rungpanyawut, Sivalee Suriyapee, and Prayuth Rojpornpradit [Full Paper](#) [Abstract](#) [Presentation](#)
- 13.40-13.50 PATIENT SPECIFIC QUALITY ASSURANCE IN 3D CONFORMAL RADIOTHERAPY: A KYAMCH EXPERIENCE
M. A. Sabur, T. Dilshad, A. Kumar, S. Basu, and G. A. Zakaria
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.50-14.00 MEASUREMENTS OF TARGET AND NON-TARGET ORGAN DOSES FOR SELECTED IMRT AND 3D-CRT RADIATION TREATMENT PROCEDURES USING HEAD AND NECK PHANTOM
Khaldoon M. Radaideh, Laila M. Matalqah, and A. A. Tajuddin
[Full Paper](#) [Abstract](#) [Presentation](#)
- 14.00-14.10 DEVELOPMENT OF A GAMMA INDEX PROGRAM TO EVALUATE INDEPENDENT DOSE CALCULATION SOFTWARE FOR IMRT QA
J H Phua, K W Ang, J H H Yap, and J C L Lee
[Full Paper](#) [Abstract](#) [Presentation](#)
- 14.10-14.20 THE DOSIMETRIC IMPACT OF DENTAL ARTIFACT REDUCTION IN RADIATION THERAPY FOR HEAD AND NECK CANCERS
Min-Young Lee, Jeong-Woo Lee, Ji-Yeon Park, Hae-Jin Park, Bo-Ram Lee, Hyong-Geun Yoon, and Tae-Suk Suh [Full Paper](#) [Abstract](#) [Presentation](#)

14.20-14.30 MEASUREMENT OF STRENGTH OF THE SOURCE BEING
IMPLANTED FOR BRACHYTHERAPY
*Kenichi Tanaka, Kunihiko Tateoka, Osamu Asanuma, Satoru Endo, Kaori
Sato, Hiromitsu Takeda, Kenichi Kamo, Masakazu Hori, Masato Hareyama,
and Jun Takada* [Full Paper](#) [Abstract](#) [Presentation](#)

14.30-15.30 Coffee break

Medical Imaging

Room *Srinakorn*
Proffered Paper: *Nuclear Medicine*
Chair: *Martin Law*
Co-Chair: *Taratip Narawong*

10.30-10.40 CHARACTERIZATION OF A COMPTON CAMERA FOR BREAST AND
BRAIN IMAGING
Chibueze Uche, Howell Round, and Michael Cree
[Full Paper](#) [Abstract](#) [Presentation](#)

10.40-10.50 FEASIBILITY STUDY OF HIGH RESOLUTION PARALLEL-HOLE
COLLIMATOR WITH CDTE PIXELATED SEMICONDUCTOR SPECT
SYSTEM
*Young-Jin Lee, Hyun-Ju Ryu, Su-Jin Park, Seung-Wan Lee, Ye-seul Kim, Dae-
Hong Kim, Byung-Du Jo, and Hee-Joung Kim*
[Full Paper](#) [Abstract](#) [Presentation](#)

10.50-11.00 A LOW-DOSE HIGH RESOLUTION SPECT SYSTEM BASED ON
PIXELLATED CDTE IN MOUSE BRAIN IMAGING
Su-Jin Park, Chang-Lae Lee, Young-Jin Lee, and Hee-Joung Kim
[Full Paper](#) [Abstract](#) [Presentation](#)

11.00-11.10 COMPARISON OF AUTOMATIC PET BASED TUMOUR DELINEATION
METHODS
*Patsuree Cheebsumon, Floris H. P. van Velden, Adriaan A. Lammertsma, and
Ronald Boellaard* [Full Paper](#) [Abstract](#) [Presentation](#)

11.10-11.20 PATIENT DOSIMETRY IN SENTINEL LYMPH NODE
LYMPHOSCINTIGRAPHY FOR BREAST CANCER: A PHANTOM
STUDY WITH SPECT/CT AND ICRP-103 APPROACH
Martin Law [Full Paper](#) [Abstract](#) [Presentation](#)

11.20-11.30 PHYSICIST ROLE IN ⁹⁰Y-RADIOEMBOLIZATION TO LIVER CANCER:
FROM IMAGING TO THERAPY
Martin Law, and Sherry Ng [Full Paper](#) [Abstract](#) [Presentation](#)

- 11.30-11.40 DYNAMIC THYROID PHANTOM MADE IN HOUSE FOR
SIMULATING Tc-99m PERTECHNETATE FLOW IN THYROID
Arreta Rei, and Djarwani S. Soejoko [Full Paper](#) [Abstract](#) [Presentation](#)
- 11.40-11.50 SCATTER CORRECTION IN Tc99m SPECT USING EFFECTIVE
ATTENUATION COEFFICIENT AND MATERIAL FILTER TECHNIQUE
I S Sayed, and S Z Muda [Full Paper](#) [Abstract](#) [Presentation](#)
- 11.50-12.00 ESTABLISHMENT OF NATIONAL QUALITY ASSURANCE
PROGRAMME IN NUCLEAR MEDICINE
A.H. Ng, Kayun Farni Z., and Sapiin B. [Full Paper](#) [Abstract](#) [Presentation](#)
- 12.00-13.00 Lunch (SEAFOMP EX COM/COUNCIL Meetings at VIP Reception Room)

Proffered Paper: Medical Imaging

Chair: Napapong Pongnapang

- 13.00-13.10 PERFORMANCE MEASUREMENT OF DR MAMMOGRAPHY SYSTEM
Kristina Tri Wigati, Susiana Sidabutar, and Djarwani S. Soejoko
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.10-13.20 OPTIMAL PROTOCOL FOR SINGLE SHOT DUAL-ENERGY
SUBTRACTION CHEST RADIOGRAPHY
*Mintra Keawsamur, Anchali Krisanachinda, Ekwan Chansue, and Rangsim
Sritulanondha* [Full Paper](#) [Abstract](#) [Presentation](#)
- 13.20-13.30 EFFECT OF ECHO TIME, ECHO TRAIN LENGTH AND FLIP ANGLE OF
T2 WEIGHTED TURBO SPIN ECHO IN REDUCTION OF CHEMICAL
SHIFT ARTIFACT
Nuttapong Danthanavat, Anchali Krisanachinda, and Sukalaya Lerdlum
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.30-13.40 RADIATION DOSE TO PATIENTS IN INTERVENTIONAL RADIOLOGY
Watanyu Taksima, Anchali Krisanachinda, and Jaturon Tantiwatna
[Full Paper](#) [Abstract](#) [Presentation](#)
- 13.40-13.50 LEAD EQUIVALENCE THICKNESS MEASUREMENT ACCURACY FOR
SELECTED RADIATION SHIELDING MATERIALS
*Azuhar Ripin, Muhammad Jamal Md Isa, Mohd Khalid Matori, Shahrul Azlan
Azizan, and Md Khairusalih Md Zin* [Full Paper](#) [Abstract](#) [Presentation](#)
- 13.50-14.00 APPLICATION OF MATHEMATICS FOR NOISE REDUCTION AND
EDGE DETECTION IN MEDICAL X-RAY IMAGE
Boonserm Nerysungnoen, Kanittha Chompuvised, and Jessada Tanthanuch
[Full Paper](#) [Abstract](#) [Presentation](#)
- 14.00-14.10 ULTRASOUND IMAGE ENHANCEMENT BY MEANS OF A
VARIATIONAL APPROACH [Full Paper](#) [Abstract](#) [Presentation](#)
Jessada Tanthanuch, Wachirawoot Seekot, and Eckart Schulz

- 14.10-14.20 TWO DIMENSIONAL COULOMB MODEL OF CAPILLARY VESSEL IN THE CASE OF CEREBRAL MALARIA USING MOLECULAR DYNAMICS [Full Paper](#) [Abstract](#) [Presentation](#)
Luman Haris, Sparisoma Viridi, Siti Nurul Khotimah, and Freddy Haryanto
- 14.20-14.30 DEVELOPMENT OF COMPUTER - AIDED SYSTEM TO DETERMINE PATIENT DOSE FROM DIGITAL RADIOGRAPHIC IMAGES BY DICOM HEADER EXTRACTION [Full Paper](#) [Abstract](#) [Presentation](#)
Petcharleeya Suwanpradit, Anchali Krisanachinda, and Rajalida Lipikorn
- 14.30-14.40 CALIBRATION OF NON INVASIVE X-RAY TUBE POTENTIAL ANALYSER USING SPECTROSCOPY SYSTEM [Full Paper](#) [Abstract](#) [Presentation](#)
Heru Prasetio, Kri Yudi P. S., Eka Djatnika, Ari Kardina, and Assef Firnando
- 14.40-15.30 Coffee break
- Room** *Sawankhalok*
- 15.30-16.00 **YOUNG MEDICAL PHYSICIST AWARDS ON PRESENTATIONS & CLOSING CEREMONY**

FRIDAY 14 DECEMBER 2012

- 08.30-12.00 TRAM TOUR / VISIT TEMPLES