

【Joint Sessions for Japan Radiology Congress】

Opening Ceremony

- Opening Ceremony: April 15 (Fri.) 13:00–14:30 (Main Hall)

Performance: Ensemble Dunamiz

Keynote lecture

President: Nagara Tamaki (Hokkaido University)

The 75th Annual Meeting of the Japan Radiological Society (JRS)

Conference President: Akio Ogura (Gunma Prefectural College of Health Sciences)

The 72nd Annual Scientific Congress of the Japanese Society of Radiological
Technology (JSRT)

Congress Chair: Fujio Araki (Kumamoto University)

The 111th Scientific Meeting of the Japan Society of Medical Physics (JSMP)

Chairman: Kenichi Komatsu

Japan Medical Imaging and Radiological Systems Industries Association (JIRA)

Joint Special Lecture

- Joint Special Lecture: April 15 (Fri.) 14:00–14:30 (Main Hall)

	Moderator: Hokkaido Univ.	Nagara Tamaki
Universe, Human, and Dream	Astronaut	Naoko Yamazaki

Joint Symposium

- Joint Symposium 1: April 15 (Fri.) 15:10–17:10 (Main Hall)

〔Anticipation of radiology progress in the next quarter of century〕

	Moderator: Kyoto College of Medical Science	Keigo Endo
	Kanazawa Univ.	Shigeru Sanada
1. Diagnostic imaging 25 years from now	Keio Univ.	Masahiro Jinzaki
2. Future perspective in nuclear medicine	Tokyo Medical and Dental Univ.	Ukihide Tateishi
3. Interventional radiology	Kochi Univ.	Takuji Yamagami
4. Hopes for progress in radiation oncology in the next 25 years	Tohoku Univ.	Keiichi Jingu
5. Expectation for successive innovation in medical physics field	Hokkaido Univ.	Masayori Ishikawa
6. For the development of technology in radiology	Sapporo Medical University Hosp.	Hiroyuki Takashima

- Joint Symposium 2: April 16 (Sat.) 9:10–11:50 (National Convention Hall)

〔Dose evaluation and control for medical radiation exposure〕

Special Presentation Prelude (9:10–9:40)

Moderator: NIRS Shinichiro Mori

1. Development of kV X-ray imaging dose calculation system for image guided radiotherapy

Kyoto University Graduate School of Medicine Yoshitomo Ishihara

2. Evaluation of K-factor (DLP to effective dose) with ICRP 110 reference phantom

Fujita Health Univ. Masanao Kobayashi

3. Fundamental study on patient radiation dose measurement in catheter ablation using the real time dosimeter.

Akita Research Institute of Brain and Blood Vessels Mamoru Kato

Symposium (9:40–11:50)

Moderator: NIRS Keiichi Akahane

Kyoto College of Medical Science Kazuko Ohno

1. Dose metrics in CT, mammography, radiography, and fluoroscopy: practical implications for clinical relevancy

Univ. of California Davis Medical Center, USA John M. Boone

2. Report from the working group of recommended Diagnostic Reference Level (DRL) for interventional radiology

Osaka City Univ. Hosp. Takao Ichida

3. Dose evaluation and control for CT

Kanazawa Univ. Kosuke Matsubara

4. Diagnostic and functional imaging using low dose chest CT

Kobe Univ. Hisanobu Koyama

5. Dose evaluation and control for nuclear medicine

Kindai Univ. Makoto Hosono

• Joint Symposium 3: April 17 (Sun.) 9:30–11:50 (Main Hall)

「Benefit to radiological diagnosis of the contrast media」

Moderator: Iwate Prefectural Kamaishi Hosp. Katsumi Hayakawa

Gunma Prefectural College of Health Sciences Akio Ogura

1. Development of contrast media: history and future perspective

Bayer Yakuhin Ltd. Masaharu Yamaoka

2. Consideration of intravenous contrast medium administration and scan timing at X-ray CT

Butsuryo College of Osaka Isao Yamaguchi

3. The transition of diagnostic process caused by emergence of novel contrast media

Kanazawa Univ. Satoshi Kobayashi

4. Risk management of contrast media

Gunma Univ. Yoshito Tsushima

5. The Gadolinium deposition in the brain: The new trend in Japan and in the world

Teikyo Univ. Tomonori Kanda

Reception for all participants (Congress Party)

- Reception for all participants (Congress Party): April 15 (Fri.) 18:15–19:30

(Yokohama Bay Hotel Tokyu B2F Queen's Grand Ballroom)

Closing and Awards ceremony

- Closing and Awards ceremony: April 17 (Sun.) 15:00–16:15 (Main Hall)

「Performance: JRC Festival Orchestra」

Program: 「Valse des fleurs」 others

【JSMP Program】

(A) Plenary Lectures [JSMP-JSRT Joint Session]

(1) April 15 (Fri) 11:00-11:50 (503)

Moderator: Kumamoto Univ. Fujio Araki

New concepts in CT dosimetry

Invited Speaker: Univ. of California, Davis Medical Center, USA John M. Boone

(2) April 15 (Fri) 14:40-15:30 (503)

Moderator: Teikyo Univ. Shinji Kawamura

Integrated MRI-Linacs: A new weapon in the battle against cancer

Invited Speaker: Univ. of Sydney, Australia Paul Keall

(B) Morning Educational Lectures

(1) April 15 (Fri) 8:15-8:55 (418, 419)

Moderator: The Univ. of Tokyo Hosp. Akihiro Haga

An introduction to Bayesian data analysis

Invited Speaker: Teikyo Univ. Jun'ichi Kotoku

(2) April 16 (Sat) 8:15-8:55 (418, 419)

Moderator: Hiroshima Heiwa Clinic Kaoru Ono

Foundations of diffusion MR Image analysis

Invited Speaker: Hiroshima City Univ. Yoshitaka Masutani

(3) April 17 (Sun) 8:15-8:55 (418, 419)

Moderator: Kyushu Univ. Hidetaka Arimura

The technologies of digital color image analysis for quantitative pathology

Invited Speaker: Tokyo Institute of Technology Masahiro Yamaguchi

(C) Lunch Time Lecture (Educational Lecture)

(1) April 15 (Fri) 12:00-12:50 (418, 419)

Moderator: NIRS Shigekazu Fukuda

Image guided application in radiation therapy

Invited Speaker: The Catholic University of Korea, Korea Tae-Suk Suh

(2) April 16 (Sat) 12:00-12:50 (418, 419)

Moderator: Kansai Rosai Hosp. Kazutoshi Yabuta

Laser-driven particle acceleration and its potential for medical applications

Invited Speaker: Japan Atomic Energy Agency Yuji Fukuda

(3) April 17 (Sun) 12:00-12:50 (418, 419)

Moderator: Kyoto Univ. Yoshitomo Ishihara

Prediction of treatment response of radiation therapy using nuclear medicine

Invited Speaker: Kyushu Univ. Shingo Baba

(D) JSMP & JSRT Joint Symposium

April 16 (Sat) 14:30-17:00 (F201・202)

Current status of real-time tumor tracking therapy

Moderator: The Univ. of Tokyo Hosp. Akihiro Haga
Tohoku Univ. Noriyuki Kadoya

1. Real-time radiotherapy: motion management from bench to bedside
Univ. of Sydney, Australia Paul Keall
2. Respiratory motion management in locally advanced pancreatic cancer
Kyoto Univ. Mitsuhiro Nakamura
3. Real-time tumor-tracking radiotherapy (RTRT) system and development of database system for inter-fractional organ motion estimated by RTRT
Hokkaido Univ. Hosp. Ryusuke Suzuki
4. Carbon-ion pencil beam scanning treatment with gated real-time markerless tumor tracking
NIRS Shinichiro Mori

(E) The 111th JSMP Symposium

April 17 (Sun) 13:00-14:40 (418, 419)

Application of Monte Carlo simulation in medical physics

Moderator: Tokyo Metropolitan Univ. Hidetoshi Saitoh
Kitasato Univ. Tomoyuki Hasegawa

1. Application of Monte Carlo simulation in photon radiation therapy
Kumamoto Univ. Takeshi Ohno
2. Particle therapy
Nagoya Proton Therapy Center Toshiyuki Toshito
3. Monte Carlo simulation in nuclear medicine
Kyushu Univ. Toshioh Fujibuchi
4. Dose evaluation of X-ray CT using Monte Carlo simulation and introduction of WAZA-ARI
NIRS Yusuke Koba
5. Discussion

(F) Dose calibration session

April 15 (Fri) 17:20-18:00 (418)

Separated calibration service of ionization chambers and electrometers

Moderator: Chiba Cancer Center Toru Kawachi

- (1) An outline of separated calibration service currently under development
Association for Nuclear Technology in Medicine Nobuhiro Takase
- (2) Electrometer calibration coefficients in pulsed radiation beams from a clinical linac
National Metrology Institute of Japan, AIST Morihito Shimizu
- (3) Notification of firmware updates for Ramtec Duo reference dosimeter
Development Group R&D Div., TOYO MEDIC CO., Ltd. Hideki Yamaoka

[JSMP-JSRT Joint Session]

(G) How to get Grants-in-Aid, -Research field “Medical Physics and Radiological Technology”

April 15 (Fri) 9:00-10:30 (414+415)

Moderator: Osaka Univ. Masahiko Koizumi
Kumamoto Univ. Junji Shiraiishi

(1) Outline of Grants-in-Aid for Scientific Research(KAKENHI)

Ministry of Education, Culture, Sports, Science and Technology (MEXT) Yasuhito Suzuki

(2) How to prepare the application form for KAKENHI -From the viewpoint of an ex-primary judge-

Kyushu Univ. Hidetaka Arimura

(3) Toward a research grant application - from my experience -

National Cancer Center Hidenobu Tachibana

(4) The survey results for the acquisition of grants-in-Aid

Osaka Univ. Masahiko Koizumi

(5) An attitude to obtain grants-in-aid by a young researcher

Fujita Health Univ. Naoki Hayashi

(6) Apply the JSPS KAKENHI at a private clinic

Miyakojima IGRT Clinic Daisaku Tatsumi

[JSMP-JSRT Joint Session]

(H) RPT Doi Awards Ceremony and Winners’Lectures

April 17 (Sun) 12:00–12:50 (414+415)

General Moderator: RPT Editor-in-Chief Kunio Doi

Moderator: Teikyo Univ. Shinji Kawamura

1) Diagnostic Imaging

Moderator: RPT Deputy Editor Sigeihiko Katsuragawa

RPT Vol.8, No.2

Aliased noise in X-ray CT images and band-limiting processing as a preventive measure

Tohoku Univ. Hosp. Kazuhiro Sato

2) MR, Nuclear Medicine and Informatics

Moderator: RPT Deputy Editor Tomoyuki Hasegawa

RPT Vol.8, No.1

Attenuation correction of ^{111}In in planar images by use of dual energy, fundamental study by Monte Carlo simulation

Fujita Health Univ. Seiji Shirakawa

3) Radiation Therapy Physics

Moderator: RPT Deputy Editor Masahiro Endo

RPT Vol.8, No.1

Applicability of self-activation of an NaI scintillator for measurement of photo-neutrons around a high-energy X-ray radiotherapy machine

Kindai University Atomic Energy Research Institute Genichiro Wakabayashi

[JCMP meeting]**(I) Brief meeting of the graduate course and employment for medical physicist**

April 16 (Sat) 13:00-14:10 (418)

Brief meeting of the graduate course and employment for medical physicist Host organization: The Japanese College of Medical Physics (JCMP)

The Japanese College of Medical Physics Shuichi Ozawa

[JBMP meeting]**(J) Briefing on the activities for the national qualification of medical physicist**

April 16 (Sat) 13:00-14:00 (419)

Briefing on the activities for the national qualification of medical physicist

Japanese Board for Medical Physicist Qualification Kumiko Karasawa

[Session for Students Studying in Japan]**(K) Are you satisfied with studying in Japan ?**

April 16 (Sat) 11:00-11:50 (419)

International Affairs Committee Shuichi Ozawa

[JSMP-JSMBE Joint Session]**(L) Exchange meeting with Japanese Society for Medical and Biological Engineering (JSMBE)**

April 17 (Sun) 11:00-11:50 (418)

Moderator: JSMP Shigekazu Fukuda

JSMBE Takeshi Shiina

(1) Purpose of Joint Session and attraction of the World Congress

NIRS Shigekazu Fukuda

(2) Introduction of JSMBE

Tokyo University Ichiro Sakuma

(3) Introduction of topics about JSMBE research

Tokyo Women's Medical University Yoshihiro Muragaki

JSMP Board of Directors

April 14 (Thu) 12:00-17:00 (421)

JSMP General Meeting of Members

April 16 (Sat) 17:10-18:10 (419)

General meeting of Japanese college of Medical physics

April 16 (Sat) 18:10-19:10 (419)

Various Committees**JSMP Official committees meeting**

April 14 (Thu) - April 17 (Sun)