

Yayoi Symposium

Radiation Chemistry and Relating Researches : Recent Topics

Date 2003 Dec. 22 9:00-18:00

Place RIKEN Okochi Hall

Program =====

(Presentation 20 Min / Discussion 10 Min)

9:00-9:30

Inhomogeneous transporting phenomena in biological systems and the function of extracellular matrix

Akiko Masuda, Kiminori Ushida, and Takayuki Okamoto (RIKEN)

9:30-10:00

Construction of pulse radiolysis system with a picosecond RF-gun at Waseda University
Masataka Kobayashi, Kiminori Ushida, Yasushi Aoki, Takehiko Kuribayashi, Masao Kawaguchi, Shigeru Kashiwagi, Ryunosuke Kuroda, Masakazu Washio, (Waseda University, RIKEN, Sumitomo)

10:00-10:30

Novel Dosimeter using Radiation Chemical Reaction

Akihiro Oshima, Toshiyuki Hyuga, Masakazu Washio (Waseda University)

(Intermission: 10:30-10:50)

10:50-11:20

Pulse radiolysis study on initial yields of solvated electrons in alcohols using a laser photocathode RF-gun combined with fs white light

Yusa Muroya, Mingzhang Lin, Toru Ueda, Hisaaki Kudo, Yosuke Katsumura (NERL, Univ. of Tokyo)

11:20-11:50

Picosecond and femtosecond time-resolved resonance Raman spectroscopy of the hydrated electron: Observation of the novel resonance Raman effect from the local hydration structure and the energy relaxation dynamics

Misao Mizuno, Shoichi Yamaguchi, and Tahei Tahara (RIKEN)

11:50-12:20

γ -radiolysis of benzophenone in supercritical water

Toyoaki Miyazaki, Hisaaki Kudo, Yosuke Katsumura (NERL, Univ. of Tokyo)

(Lunch Break 12:20-13:30)

13:30-14:00

Large resonances due to doubly excited methane

Noriyuki Kouchi, Masahiro Kato, Yukinari Kameda, Jo Odagiri, Yoshihiko Hatano
(Tokyo Institute of Technology)

14:00-14:30

Collective photo-emission preceding known excited states in ion tracks in insulator crystals

Kazuie Kimura, Masanori Koshimuzu, Keisuke Asai, Masayuki Kase, (RIKEN, Tohoku university)

14:30-15:00

LET effects on Radiation Resistance of Polymer Materials

Tadao Seguchi (JAERI Takasaki)

15:00-15:30

Consideration of heavy-ion track structure

Shin-ichi Ohno (Theoretical Radiation Research Laboratory)

(Intermission 15:30-16:00)

16:00-16:30

Positronium emission from porous films studied by time of flight spectroscopy

Y. Kobayashi, R. S. Yu, T. Ohdaira, R. Suzuki, K. Ito, K. Hirata, K. Sato and Y. Michida
(National Institute of Advanced Industrial Science and Technology)

16:30-17:00

Photoreaction mechanism of nanocrystalline TiO₂ film: Vis-near IR transient absorption

spectroscopic study

Ryuzi Katoh, Toshitada Yoshihara, Akihiro Furube, Yoshiaki, Tamaki, Miki Murai,
Kohjiro Hara, Shigeo Murata, Hironori Arakawa and Masanori Tachiya
(National Institute of Advanced Industrial Science and Technology)

17:00-17:30

Masashi Tadokoro, Hisaaki Kudo, Yusa Muroya, Yosuke Katsumura, Takao Omata,
Takeo Iwai, Hiromi Shibata, Sunao Hasegawa, Masaki Sugimoto, Ryo Idesaki
(NERL, Univ. of Tokyo, RCNST, Univ. of Tokyo, Kyoto Univ., ISAS, Univ. of Tokyo,
JAERI Takasaki)

17:30-18:00

Degradation of PVC by use of Microwave : Measurement of the Dependence on the
Electrical Field Intensity

Kiminori Ushida, Noboru Nakao, Naoki Kikuchi, Masayuki Ito, Kentaro Asai,
Masakazu Washio (RIKEN, Kobelco Steel Co. Ltd., Waseda University)

Banquet (At Hirosawa Club 2F / Immediately after meeting – 20:00)

Fee 3,000 yen for professionals and 1,500 yen for students.