

## SRの結晶学への応用 Satellite Meeting on Crystallographic Applications of SR

- Time-resolved x-ray experiments -  
Friday and Saturday, August 1 and 2, 1997

Photon Factory, Tsukuba, Ibaraki, 305 Japan  
co-chair T. Matsushita (PF) & Y. Amemiya (Univ. of Tokyo)

We would like to invite you to participate in the Satellite meeting of SRI97. This Satellite meeting will cover a broad range of instrumentation and research application related to the use of synchrotron radiation in crystallography. Particular attention will focus on time-resolved x-ray experiments such as described below. The program will consist of oral presentations and poster session.

### Topics to be covered:

- ( A ) Time-resolved protein crystallography
- ( B ) Time-resolved XAFS
- ( C ) Time-resolved small-angle x-ray scattering
- ( D ) Mossbauer spectroscopy in time domain
- ( E ) Time-resolved diffraction
- ( F ) Detectors for time-resolved measurements

- 1 ) Evening poster session is scheduled on August 1.
- 2 ) Rooms (about 50) of KEK dormitory will be available for participants.
- 3 ) WWW Satellite Meeting Home Page is reached  
at <http://pfiqst.kek.jp/sri-satellite>  
Program, Registration, Accommodation, & Travel information is available on the WWW.
- 4 ) Question and comments regarding this satellite should be directed to :  
Y. Amemiya (Univ. of Tokyo)  
TEL & FAX: (81) - 3 - 5800 - 6821  
E-mail : [amemiya@kohsai.t.u-tokyo.ac.jp](mailto:amemiya@kohsai.t.u-tokyo.ac.jp)
- 5 ) Registration fee : Regular - 4,000 Yen, Student - 2,000 Yen  
Registration fee will be collected at on-site registration desk upon your arrival.

# ANNOUNCEMENT

FAX to Ms. Mori at Photon Factory

(fax no. 0298-64-2801)

Satellite Meeting on crystallographic application of SR

- Time-resolved x-ray experiments -

Friday and Saturday, August 1 and 2, 1997

Photon Factory, Tsukuba, Ibaraki, 305 Japan

## Registration Form

Name \_\_\_\_\_

Affiliation : \_\_\_\_\_

Address : \_\_\_\_\_

Country : \_\_\_\_\_

Phone \_\_\_\_\_ Fax No. \_\_\_\_\_

E-mail \_\_\_\_\_

Date \_\_\_\_\_

Regular : 4000 Yen      Student : 2000 Yen

I will present a poster (180 cm (W) x 120 cm (H)). Title of the paper is ;

\_\_\_\_\_

( Deadline of the submission of the abstract : July 22, 1997. The abstract should be on one sheet of A4 format , being sent to Ms. Mori at PF. )

### Accommodation

I would like to have a list of local accommodation.

I would like to reserve a room of KEK dormitory (1000 Yen per night ).

I will arrive on \_\_\_\_\_ and depart on \_\_\_\_\_ .

(\* )Registration fee and accommodation fee will be collected at on-site registration desk upon your arrival.

**Program (tentative)****July 31 (Thursday)**

17:00 - 18:00 Registration at Seminar Hall Lobby  
 18:00 - 20:00 Reception party at Seminar Hall Lobby

**August 1 (Friday)**

8:45 - 9:00 Opening remarks Tadashi. Matsushita (PF, Japan)

Session on "New opportunities for time-resolved experiments (I)"

9:00 - 9:30 Tom Irving (APS, USA)

"New opportunities for time-resolved biological small-angle scattering at the Advanced Photon Source".

9:30 - 10:00 Naoto Yagi (JASRI, Japan)

"Strategy for time-resolved diffraction experiments at SPring-8."

10:00 - 10:30 Ake Kvick (ESRF)

"Time-resolved diffraction at ESRF"

(10:30 - 11:00 Break)

Session on "New opportunities for time-resolved experiments (II)"

11:00 - 11:30 Robert Schoenlein (Berkeley Laboratory, USA)

"Laser technique for generating femtosecond x-rays at the ALS"

11:30 - 12:00 Douglas Abernathy (ESRF)

"Time-resolved x-ray speckle experiments: Using coherent x-rays to measure equilibrium dynamics"

12:00 - 12:30 Robert Cernik (Daresbury, UK)

"Time-resolved powder diffraction at Daresbury"

12:30 - 13:00 Masayoshi Ito (PF, Japan)

"Development of (X, eX) spectrometer to measure energies of both scattered photon and recoiled electron"

(13:00 - 14:00 Lunch)

Session on "Time-resolved small-angle x-ray scattering"

14:00 - 14:30 Hiroshi Kihara (Kansai Medical Univ., Japan)

"Study on protein folding by stopped-flow x-ray scattering"

14:30 - 15:00 Shoji Suehiro (Kyoto Univ., Japan)

"Time-Resolved SAXS Study of Block Copolymers under Shear Deformation"

15:00 - 15:30 Hiroshi Takahashi (Nagoya Univ., Japan)

"Correlation between structural change and thermal event at phase transitions of lipids as revealed by simultaneous differential scanning calorimetry and X-ray diffraction measurements"

16:00 - 17:00 Guided tour in the experimental hall of PF & AR

18:00 - 20:00 Banquet at Oho

20:30 - 22:00 Poster session with wine at Lecture Hall of KEK

**August 2 (Saturday)**

Session on "Moessbauer spectroscopy in time domain"

9:00 - 9:30 Takaya Mitsui (JASRI, Japan)

"Mossbauer time spectra of nuclear resonant scattering in the presence of RF magnetic modulation which is synchronized

with SR emission"

9:30 - 10:00 Vladimir A. Belyakov (Landau Inst. for Theo. Phys., Russia)

"Mossbauer filtration of synchrotron radiation ( new ideas)"

10:00 - 10:30 Esen. E. Alp (APS, USA)

"Bunch Structure and Detector Requirements for Coherent and Incoherent Nuclear Resonant Scattering Experiments"

(10:30 - 11:00 Break)

Session on "Time-resolved XAFS"

11:00 - 11:30 Alain Fontaine (ESRF) and F. Baudelet (LURE)

"Nanosecond-resolved XMCD using dispersive XAS with QWP to flip the photon helicity" (tentative title)

11:30 - 12:00 Michael Hagelstein (Karlsruhe , Germany) (to be confirmed)

"Time-resolved XAS" (tentative title)

12:00 - 12:30 Boris Tolochko (INP, Russia)

"Quick beam switching for fast time-resolved XAFS and diffraction"

12:30 - 13:30 Lunch

Session on "Detectors for time-resolved measurements"

13:30 - 14:00 Shunji Kishimoto (PF, Japan)

"Avalanche photodiode detectors for sub-nanosecond timing measurements"

14:00 - 14:30 Eric Eikenberry (Princeton Univ., USA)

"A Pixel Array Detector for Microsecond Time-Resolved X-ray Diffraction"

14:30 - 15:00 Atsuhiko Ochi (Tokyo Institute of Technology, Japan)

"Development of MicroStrip Gas Chambers as sub-milli-second time-resolved imaging detector"

15:00 - 15:30 Yoshiyuki Amemiya (Univ. of Tokyo, Japan)

"CCD-based x-ray detectors for time-resolved measurements"

(15:30 - 16:00 Break)

Session on "AR Project"

16:00 - 16:30 Speaker to be confirmed

Talk on accelerator

16:30 - 17:00 Speaker to be confirmed

Talk on Scientific program

17:00 - 17:10 Closing remarks