



*The 6th International Conference
on
Synchrotron Radiation Instrumentation
(SRI '97)*

Aug. 4 to Aug. 8, 1997

Himeji, Hyogo

Second Announcement

Organized by :

Japanese Society for Synchrotron Radiation Research
Japan Atomic Energy Research Institute (JAERI)
The Institute of Physical and Chemical Research
(RIKEN)
Japan Synchrotron Radiation Research Institute
(JASRI)

Hosted by : JAERI-RIKEN SPring-8 Project Team

Approved by:

Atomic Energy Society of Japan
Chemical Society of Japan
ETL (Electrotechnical Laboratory)
IMS (Institute of Molecular Science)
ISSP (Institute of Solid State Physics, Univ. of Tokyo)
Japan Society of Applied Physics
KEK (National Institute of High Energy Physics)
Physical Society of Japan
The Crystallographic Society of Japan
The Biophysical Society of Japan

Sponsored by:

Himeji City (Japan)
Hyogo Prefecture (Japan)

Conference Committee

International Advisory Committee

B. Batterman (CHESS, USA)
S. T. Balyaev (KSRS, Russia)

D. D. Bhawalkar (CAT, India)
A. Bienenstock (SSRL, USA)
A. Comes (LURE, France)
W. Gudat (BESSY, Germany)
M. Hart (NSLS, USA)
D. Huber (SRC, USA)
J. Hormes (BONN II, Germany)
H. Iwasaki (Ritsumeikan, Japan)
H. Kamiya (SRL-ISSP, Japan)
I. M. Karnauchov (Kharkov, Ukraine)
M. Kihara (KEK PF, Japan)
B. Kincaid (ALS, USA)
N. Kosugi (UVSOR, Japan)
G. Kulipanov (SSRC, Russia)
P. Laurelli (INFN-LNF, Italy)
T. N. Lee (Pohang, Korea)
Y. C. Liu (SRRF, Chinese Taipei)
N. Liu (NSRL, People's Republic of China)
R. P. Madden (NIST, USA)
D. Moncton (APS, USA)
I. Munro (SRS, UK)
R. Nyholm (Max, Sweden)
Y. Petroff (ESRF, France)
R. Rosei (ELETTRA, Italy)
V. Saile (CAMD, USA)
J. R. Schneider (HASYLAB, Germany)
C. G. Silva (LNLS, Brazil)
E. Uggerhoj (ISR, Denmark)
T. Yamazaki (ETL, Japan)
Y. Yan (BSRF, People's Republic of China)

Organizing Committee

Chair : H. Kamitsubo (SPring-8)
M. Ando (KEK PF)
Y. Kamiya (Univ. of Tokyo)
H. Kobayakawa (KEK PF)
S. Komiya (Fujitsu)
J. Matsui (HIT)
T. Matsushita (KEK PF)
Y. Miyahara (SPring-8)
H. Ohno (SPring-8)
H. Onuki (ETL)
M. Oshima (Univ. of Tokyo)
N. Sakai (HIT)
S. Sato (Tohoku Univ.)
S. Suga (Osaka Univ.)
M. Taniguchi (Hiroshima Univ.)
T. Tomimasu (FELI)
T. Ueki (SPring-8)
T. Urisu (IMS)

Program Committee

Chair : M. Ando (KEK)
Y. Amemiya (Univ. of Tokyo)
A. Ando (HIT)
S. Aoki (Tsukuba Univ.)
C. T. Chen (SRRC)
H. Daimon (Osaka Univ.)
A. Freund (ESRF)
J. Hastings (NSLS)
J. Helliwell (Manchester Univ.)
Y. Hirai (Hitachi)
A. Jackson (ALS)
A. Kakizaki (Univ. of Tokyo)
H. Kinoshita (HIT)
H. Kitamura (SPring-8)
H. Kobayakawa (KEK)
G. Materlik (HASYLAB)
D. Mills (APS)
T. Miyahara (Tokyo Met. Univ.)
K. Namikawa (Tokyo Gakugei Univ.)
H. Ohno (SPring-8)
H. Onuki (ETL)
H. Oyanagi (ETL)
M. Taniguchi (Hiroshima Univ.)
T. Ueki (SPring-8)

Publication Committee

Chair : H. Ohno (SPring-8)
M. Ando (KEK PF)
T. Miyahara (Tokyo Met. Univ.)
T. Ueki (SPring-8)

Outline of the Conference

SRI is the international conference on synchrotron radiation instrumentation that is related to synchrotron radiation light sources and beam line techniques, experimental techniques, and applications in synchrotron radiation science. Following successful conferences in Hamburg (1982), Stanford (1985), Tsukuba (1988), Chester (1991), and Stony Brook (1994), the 6th International Conference on Synchrotron Radiation Instrumentation (SRI) will be held from August 4 to August 8, 1997, in Himeji in western Japan. The conference will be hosted by the SPring-8 Project Team that has been constructing a third-generation synchrotron radiation facility in a hard X-ray region with a storage ring of 8 GeV.

The year 1997 is a memorial year, marking the 50th anniversary since synchrotron radiation was first observed. Over the last decade, remarkable advances have been made in the development of light sources, radiation optics and experimental techniques as well as in science in general. Recently, several third-generation synchrotron radiation facilities have come into use or are under construction. Since remarkable scientific results have been obtained from the utilization of these facilities, it is a good opportunity to bring together scientists and engineers from a number of diverse fields working in synchrotron radiation science.

The scientific program will include following topics :

Light sources and beam line techniques

- Accelerators
- Insertion devices
- SR beam position monitors
- Optics
- Micro beams

Experimental techniques

- Spectroscopy

Diffraction and scattering
 Imaging
 Detectors
 Use of coherent SR beams
 Use of high energy SR beams
 Use of short bunch(es)
 Industrial applications
 Medical applications
 Next generation SR and sciences
 Facility reports

Tentative Program of SRI '97

The scientific program consists of plenary sessions, and oral and poster presentation sessions including facility reports.

Except for the opening lecture, plenary sessions and the special lecture on "Fifty Years of Synchrotron Radiation," papers will be mainly presented in poster sessions.

The Program Committee may request that several of the posters be presented orally, in addition to the invited talks.

| MONDAY, August 4 | TUESDAY, August 5 | WEDNESDAY, August 6 | THURSDAY, August 7 | FRIDAY, August 8 |
|-------------------|-------------------|---------------------|--------------------|------------------|
| Morning | | | | |
| Opening Lecture*1 | Plenary Session | Plenary Session | Plenary Session | Plenary Session |
| Facility Report | Oral Session | Poster Session | Oral Session | Oral Session |
| Afternoon | | | | |
| Oral Session | Oral Session | Oral Session | Poster Session | Oral Session |
| Poster Session | Poster Session | Site Tour | Special Lecture*2 | |
| Evening | | | | |
| | | | Banquet | |

* 1. Opening Lectures and Invited Speakers (N. A.):

- P. Elleaume (ESRF, France)
- W. R. Dix (DESY-HASYLAB, Germany)
- G. Muhlhaupt (SLS, Switzerland)
- C. Pellegrini (UCLA, USA)
- J. R. Schneider (HASYLAB, Germany)
- A. Snigirev (ESRF, France)
- L. N. Wassdahl (Uppsala, Sweden)
- Y. Yan (BSRF, People's Republic of China)

* 2. Special Lecture (N. A.):

- "Fifty Years of Synchrotron Radiation"
- J. P. Blewett (USA)
- K. C. Holmes (MPI, Germany)
- T. Sasaki (Japan)
- R. P. Madden (NIST, USA)

Instructions for poster preparation, legibility, size of poster board and so on will be inserted in the final announcement.

Other Concurrent Events

Welcome Reception
 Sunday, August 3, 1997
 7:00 p.m.
 Main Hall of Himeji Chamber of Commerce

The chairperson of the Organizing Committee cordially invite all the participants to the reception party in the evening.

Banquet
 Thursday, August 7
 7:00 p.m.
 Main Hall of Himeji Chamber of Commerce

Industrial Exhibition
 As with the previous conferences, there will be an

industrial exhibition. It will be held in the exhibition room of the Himeji Citizens' Hall. Those who are interested in the industrial exhibition, please contact the main office of the conference for detailed information.

Social Program

A social program will be planned and announced in the final announcement. Registrations for this program will probably be accepted at the information desk at the conference. Registration for the SPring-8 site tour will also be requested on the first day of the conference (August 4) at the information desk.

Satellite Meetings

Satellite meetings will be organized before and after the conference, according to the proposals of the International Advisory Committee and Program Committee. Presently, several meetings are planned as follows:

XEL'97
(1997 International Workshop on X-rays
and Extreme Ultraviolet Lithography)

July 13-15
PACIFICO Yokohama
Yokohama, Japan

Organizers:
Japanese Society for Promotion of Science
Japan Technology Transfer Association

- This workshop is held every two years to review the progress of X-ray proximity and EUV lithography technologies.

International Workshop to Study the
Function of Small Storage Rings and Next
Generation Free-Electron Lasers

August 8-10
IMS
Okazaki, Japan

Organizers:

S. Kosugi (UVSOR IMS),
H. Yamada (Ritsumeikan Univ.)
H. Hama (UVSOR IMS)
T. Yamasaki (ETL)

- The purpose of the workshop is to summarize the status and the potential of small synchrotron light sources and free electron lasers.

Satellite Meeting on
Crystallographic Applications of SR

August 1-2
Photon Factory KEK
Tsukuba, Japan

Organizers:

T. Matsushita (KEK PF)
Y. Amemiya (Univ. of Tokyo)

- Topics for discussion will focus on macromolecular application and material science and physics application in addition to tutorial lectures for young scientists.

Compact Synchrotron Light Sources
in the New Age

August 2
Ritsumeikan University
Kusatsu, Shiga, Japan

Organizer:

H. Iwasaki (Ritsumeikan Univ.)

- Covers recent activities concerning compact light sources throughout the world and future prospects, following a discussion of the new role of micro fabrication techniques.

Details of the meetings with application forms will follow with the final announcement.

Registration

Individuals planning to attend the conference are urged to register in advance. **Advance registration must be received no later than June 30, 1997.** After June 30, no registration will be accepted by fax or mail. On-site registration is welcome. The registration form appears in this booklet. The registration form should be forwarded by fax or mail to :

SRI '97 Conference Sub-Office
c/o Bilingual Group Ltd, Conference Division
4-7-22-2F Kudan-Minami, Chiyoda-ku,
Tokyo 102 Japan
FAX : +81-3-3263-1264 (In Japan : 03-3263-1264)

Conference Registration Fee

| | <u>Early (before</u> <u>March 31, 1997)</u> | <u>Late (after</u> <u>March 31, 1997)</u> |
|---------------------|--|--|
| Participant | 30,000 yen | 35,000 yen |
| Student | 20,000 yen | 25,000 yen |
| Accompanying Person | 10,000 yen | 12,000 yen |
| Banquet | 5,000 yen | 5,000 yen |

Means of Payment:

All payments must be made in cash (Japanese yen) only. Personal checks and credit cards are not accepted. Payment for advance registration must be made by bank transfer to the following account :

Payee: SRI 97
Ordinary Deposit: Account No. 7879777
The Sakura Bank Ltd., Kobe Main Office
56 Naniwa-machi, Chuo-ku, Kobe,
Hyogo 650, Japan

*Participants are responsible for paying any bank handling charges.

*Please indicate your name for every payment.

*Payment at the conference desk during the conference must be made in CASH in yen only.

Foreign currency and traveler's checks will not be accepted.

Registration Fee includes :

* Participants:

Admission to Conference
 Conference documentation
 Coffee break
 Welcome Reception
 Proceedings
 Site Tour
 Social Program (Most of the social programs are included)

* Accompanying person:

Welcome Reception
 Admission to Special Lectures
 Social Program (Most of the social programs are included)

Lunch, dinner and the banquet are not included in the registration fee.

On-Site Registration :

Registration at the conference will be available from 13:00-18:30 August 3 (Sun.) at the Himeji Chamber of Commerce. On the other days of the conference, the registration desk and the secretariat will be open 9:00-17:00. On arrival at the Conference site, all delegates must enroll personally at the registration desk. Delegates are also requested to enroll accompanying persons. All registered participants will receive a conference kit containing the final program, abstracts, identification badge and invitation for social events etc.

Confirmation and Receipt :

The secretariat will send a confirmation receipt with the registration form to each registered participant and accompanying person whose payment has been received. This confirmation letter must be presented as proof of payment at the conference registration desk upon arrival.

Cancellation and Refund Policy :

Refunds for cancellation of conference registration must be requested in writing (letter or fax) to the Conference Secretariat. An administration charge of 5,000 yen will be deducted from registration fee.

Financial Support to Young Scientists

The Organizing Committee will provide financial support to young scientists under the following conditions ;

1. Candidates are PhD students / postdoctoral fellows who submit papers to this conference (main meeting).
2. A total of 50 delegates will be selected by the Organizing Committee.
3. The support to be provided will be the waiver of the registration fee, free accommodation in the SPring-8 Guest House (Harima), and free transportation between SPring-8 (Harima) and the conference site.

Abstract Submission and Conference Proceedings

Abstracts must be submitted no later than March 31, 1997. Abstracts postmarked later than March 20, 1997 (Air-mailed) or submitted electronically after March 31, 1997, will be rejected.

Abstracts must be submitted by the "**ABSTRACT FORM SRI'97**" on this booklet and the instruction of Abstract submission can be seen by the enclosed papers.

The information related to the publication of the SRI '97 Proceedings in the Journal of Synchrotron Radiation will be given in the final announcement. Papers of the Proceedings must be brought to the conference and handed in at the conference reception desk. The Proceedings in the Journal of Synchrotron Radiation will be published on May 1, 1998. The papers will be reviewed according to the standard procedures of the Journal.

ABSTRACT SUBMISSION INSTRUCTIONS

Deadline for submission: March 31, 1997. Abstracts postmarked later than March 20, 1997 (air-mailed), or submitted electronically after March 31, will be rejected.

Abstracts can be submitted in one of the following formats:

1. E-mail plain text or html
2. Hardcopy with Microsoft Word or Wordperfect file on a 3.5 floppy disk.
3. Hardcopy submission

Generalities Common to all Submissions:

1. The entire abstract, including title, authors and their affiliations, footnotes, references, diagrams, tables, equations, etc., must fit it into a 17.0 cm wide by 12.5cm high and must contain no more than 250 words. Times font with 12 point size characters must be used.

2. The title must be in capitals (except where chemical formulae require lower case letters) and should contain not more than 100 characters. 2.5cm indentation must be left in the first line for insertion of the abstract number.

3. The paper must be presented by the author named first in the abstract.

4. Subjects and topics of the meeting are as follows.

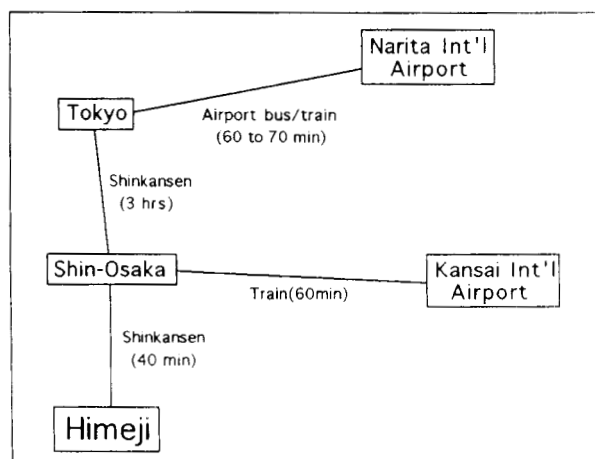
1. Light sources and beamline techniques
 - a. Accelerators
 - b. Insertion devices
 - c. SR beam position monitors
 - d. Optics
 - e. Microbeam
2. Experimental techniques
 - a. Spectroscopy
 - b. Diffraction and scattering
 - c. Detectors
 - d. Imaging
 - e. Use of coherent SR beam
 - f. Use of high energy SR beam
 - g. Use of short bunch(es)
3. Industrial applications
4. Medical applications
5. Next generation SR sources
6. Facility reports

5. Abstracts for invited papers must be submitted in the same manner as those for contributed papers.

6. Abstracts will be posted to the www before the Conference. A list of abstract titles and authors will appear on the www with regular updates.

Instructions Specific to Electronic Submission:

Abstracts can be submitted either by completing a WWW submission page or by e-mail. Details are shown on the attached sheet.



General Information

Conference Venue

The conference will be held in the Himeji Citizens' Hall and the Chamber of Commerce Hall, which are located in the center of Himeji City, Hyogo Prefecture. A detailed map of Himeji City will be enclosed with the final announcement.

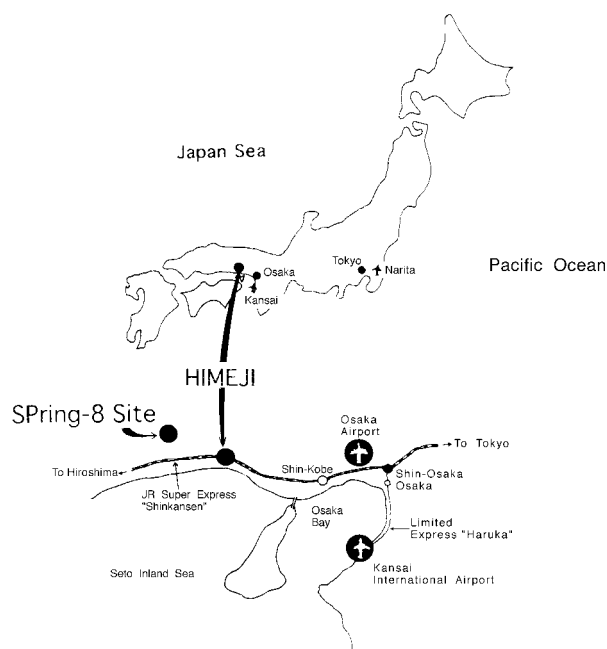
Himeji City is located about 90 km west of Osaka and is known for Himeji Castle, designated as a world heritage site by UNESCO in 1994. Science Garden City, where the SPring-8 facility is located, is about 30 km northwest of Himeji City.

How to reach Himeji City

Entry into Japan is usually via Kansai International Airport (Osaka) or New Tokyo International Airport (Narita). In either case, you can reach Himeji City from Shin-Osaka or Osaka stations via JR (Japan Railways).

Climate and Clothing

Himeji city and the SPring-8 site are sunny in August,



with temperatures of about 35 in the afternoon and 25 at night.

Passports and Visas

All foreign visitors entering Japan must possess a valid passport. Participants from countries requiring visas should apply at the Japanese Consular office in their respective countries. For details, please consult your travel agent, or the nearest Japanese Mission.

Foreign Exchange and Traveler's Checks

It is recommended that participants purchase traveler's checks in Japanese Yen or U.S. dollars prior to departure. The secretariat will accept **only Japanese yen in cash** on site. Foreign currency can be exchanged at most banks and at the international airports.

Electrical Appliances

Japan operates on 100-110 volts for electrical appliances. The frequency is 50 Hz in eastern Japan including Tokyo, and 60 Hz in western Japan including Himeji.

Shopping

Most department stores are open from 10:00 to 19:00. They are open on Sundays and national holidays.

Currency Exchange

There are several banks around the conference site where foreign currencies exchange are available by presenting your passport. Japanese banks are open 9:00 to 15:00. No monetary exchange services are available at the conference site.

Consumption Tax

A 5% of consumption tax is scheduled to be introduced in Japan from April 1, 1997.

Tipping

In Japan, tips are not necessary anywhere, even at hotels and restaurants.

Insurance

The organizer cannot accept responsibility for accidents which might occur. Delegates are encouraged to obtain travel insurance (medical, personal accident, and luggage) in their home country prior to departure.

Hotel Accommodation and Tours

Official Travel Agent

The Japan Travel Bureau, Inc. (JTB) has been appointed as the official travel agent for the conference and will handle all related travel arrangements including hotel accommodation and tours.

Hotels

Several hotels are available within walking distance of the venue in Himeji City. The Organizing Committee plans to reserve hotels for conference participants at reduced rates. The guest house of the SPring-8 facility in the Science Garden City, 30 km northwest of Himeji City will also be available at low rates. Commuting buses will be operated in the mornings and after afternoon sessions/banquet between the guest house and Himeji Citizens Hall. Detailed information will be included in the following announcement and reservations will be accepted thereafter.

Instructions Specific to Electronic Submission

Abstracts can be submitted either by completing a WWW submission page or by e-mail.

• **By WWW submission page** (" ABSTRACT FORM - SRI'97 ")

1. Go to "ABSTRACT FORM - SRI'97"
(<http://www.spring8.or.jp/ENGLISH/F/1/abstract/form.html>)
2. Fill in all the information requested in the page.
3. Click "Submit Abstract" to transmit the abstract.

• **By e-mail**

Include the following information (plain text ASCII).
Insert it ahead of the abstract.

(e-mail : sri97abs@sp8sun.spring8.or.jp)

1. Subjects and topics code* for which the abstract is submitted
2. Name, address, phone, fax, e-mail, of presenting author
3. Preferred type of presentation (oral/poster)
4. Authorization to list your abstract on the WWW (yes/no)
5. Authorization to list above phone/fax/e-mail on the WWW (yes/no)

***Selections for Subjects and Topics**

1. Light sources and beamline techniques
 - a. Accelerators
 - b. Insertion devices
 - c. SR beam position monitor
 - d. Optics
 - e. Microbeam
2. Experimental techniques
 - a. Spectroscopy
 - b. Diffraction and scattering
 - c. Detectors
 - d. Imaging
 - e. Use of coherent SR beam
 - f. Use of high energy SR beam
 - g. Use of short bunch(es)
3. Industrial applications
4. Medical applications
5. Next generation SR sources
6. Facility reports

EXAMPLE by e-mail

Subjects and Topics: 6
 Name: Hideo Ohno
 Address: JAERI-RIKEN SPring-8 Project Team
 Kamigori, Ako-gun, Hyogo 678-12
 JAPAN
 Phone: +81-7915-8-0961
 Fax: +81-7915-8-0965
 e-mail: taro_spring8@haru08.spring8.or.jp
 Preferred type of presentation: oral
 Authorization for abstract: yes
 Authorization for phone/fax/e-mail: yes
 Abstract :

BEAMLINES ON THE SPring-8 PROJECT

Hideo Ohno
 JAERI-RIKEN SPring-8 Project Team
 Kamigori, Ako-gun, Hyogo 678-12, JAPAN

SPring-8 project is going to construct an untrahigh-brilliance X-ray synchrotron radiation facility and commissioning of the storage ring is expected in spring 1977. The facility will be available to scientists and engineers of universities, national laboratories and industry not only from Japan but also abroad.

The following ten public beamlines, bio-crystallography, soft X-ray spectroscopy of solid, high energy inelastic scattering, nuclear resonant scattering, extremely dense state, physicochemical analysis, soft X-ray photochemistry, crystal structure analysis, high temperature research and XAFS, are under construction. These represent the first phase of SPring-8's public beamline construction program, which is scheduled for completion by the end of 1997.

EXAMPLE by WWW submission

Netscape: ABSTRACT FORM SRI'97

場所: file:///Macintosh%20HD/Misc.data/SRI97%8A%8D6%98A/form.html

ABSTRACT FORM SRI'97

Subjects and Topics: 6

Title: BEAMLINES ON THE SPring-8 PROJECT

First name (presenting author): Hideo

Surname (presenting author): Ohno

Address: JAERI-RIKEN SPring-8 Project Team
 Kamigori, Ako-gun, Hyogo 678-12
 JAPAN

Phone: +81-7915-8-0961

Fax: +81-7915-8-0965

e-mail: taro_spring8@haru08.spring8.or.jp

Preferred type of contributed presentation: Oral

Can we list your abstract on the WWW? Yes

Can we list your phone/fax/e-mail on the WWW? No

Three keywords for abstract book index:

ABSTRACT

BEAMLINES ON THE SPring-8 PROJECT

Hideo Ohno
 JAERI-RIKEN SPring-8 Project Team
 Kamigori, Ako-gun, Hyogo 678-12, JAPAN

SPring-8 project is going to construct an untrahigh-brilliance X-ray synchrotron radiation facility and commissioning of the storage ring is expected in spring 1977. The facility will be available to scientists and engineers of universities, national laboratories and industry not only from Japan but also abroad.

The following ten public beamlines, bio-crystallography, soft X-ray spectroscopy of solid, high energy inelastic scattering, nuclear resonant scattering, extremely dense state, physicochemical analysis, soft X-ray photochemistry, crystal structure analysis, high temperature research and XAFS, are under construction. These represent the first phase of SPring-8's public beamline construction program, which is scheduled for completion by the end of 1997.

Submit Abstract Clear All Fields

SRI '97 Registration Form

Please complete (type or print) and return by mail or fax to:

SRI '97 SECRETARIAT Sub-Office
C/O Bilingual Group Ltd. Conference Division
4-7-22-2F Kudan-Minami, Chiyoda-ku, Tokyo 102 Japan
FAX:81-3-3263-1264

Deadline
June 30, 1997

| | | |
|---|--------------|----------------------|
| <input type="checkbox"/> Prof. <input type="checkbox"/> Dr. <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. (Last Name) | (First Name) | (M.I.) |
| Affiliation (University/Company) | | (Nationality) |
| (Address) | | (Zip Code) (Country) |
| (Phone) | (Fax) | (E-Mail) |
| Name of the Accompanying Person (Last Name) | | (First Name) |

SRI '97 Conference Registration Fee

Please check

| | | |
|---|---------|--------------------------|
| Early Registration made by March 31, 1997 | ¥30,000 | <input type="checkbox"/> |
| Late Registration made after March 31, 1997 | ¥35,000 | <input type="checkbox"/> |
| Early Student Registration made by March 31, 1997 | ¥20,000 | <input type="checkbox"/> |
| Late Student Registration made after March 31, 1997 | ¥25,000 | <input type="checkbox"/> |
| Early Registration - Accompanying person | ¥10,000 | <input type="checkbox"/> |
| Late Registration - Accompanying person | ¥12,000 | <input type="checkbox"/> |
| Banquet | ¥5,000 | <input type="checkbox"/> |
| TOTAL AMOUNT | ¥ | |

REMITTANCE

The registration fee should be paid in Japanese yen through bank transfer to the following account.

The SAKURA BANK Ltd., Kobe Main Office
56 Naniwa-machi, Chuo-ku, Kobe, Hyogo 650, Japan
Ordinary Deposit : Account No. 7879777
Account Title : SRI 97

*We would appreciate your kindly sending us a copy of the bank's receipt for remittance to avoid the potential problems.

I have sent the fee by bank transfer through _____
 _____ on _____. (Name and address of your bank and date of remittance.)

Date: _____ Signature : _____

NOTE: We only accept cash at on-site registration. No traveler's checks and personal checks are accepted. All payment must be in Japanese yen.