

Ninth International Conference on Accelerator Mass Spectrometry (AMS-9)

Main Conference Sessions:

September 9-13, 2002 Nagoya University, Nagoya, Aichi Prefecture

Workshop-I:

September 6, 2002 the University of Tokyo, Tokyo

Workshop-II:

September 7, 2002 the National Museum of Japanese History, Sakura, Chiba Prefecture

Organized by

AMS-9 Organizing Committee in Japan

Center for Chronological Research, Nagoya University

Co-organized by

The Japan Association for AMS Research

The Japan Association for Quaternary Research

National Committee for the International Union for Quaternary Research

The Geochemical Society of Japan

Japanese Society for Scientific Studies on Cultural Property

Japanese Association of Historical Botany

Sponsored by

The Japanese Ministry of Education, Culture, Sports, Science and Technology

The Institute of Natural Sciences, Nihon University

Tokyo Geographical Society

Daiko Foundation

Nagoya Convention and Visitors Bureau

Nagoya University Foundation

Welcome address

AMS researchers in Japan are honored to welcome you to the Ninth International Conference on Accelerator Mass Spectrometry (AMS-9), the first AMS Conference of the 21st Century. This year is the 25th anniversary of the first AMS experiments conducted in 1977. In a quarter of a century, AMS studies have spread around the world. AMS techniques are now indispensable in studies of cosmogenic radioisotopes as well as long-life radiogenic radioisotopes. In particular, the fields of geological and archeological dating have greatly benefited from AMS measurements of cosmogenic as well as radiogenic nuclides.

Japan has had a long-standing participation in AMS studies. Tandem facilities at the University of Tokyo and Kyoto University began their research on AMS in 1980. The studies were aimed at the detection of ^3H , ^{10}Be , ^{14}C . Routine ^{10}Be measurements were begun at the University of Tokyo in 1982. In addition, a GIC Tandetron was installed at Nagoya University in 1981-1982, and routine ^{14}C dating began in 1983. As a result of this 20-year-long history, more and more members in AMS application research are enjoying the wonderful fruits of AMS technology, and today eight AMS facilities are running in Japan.

The Micro Analysis Laboratory Tandem Accelerator (MALT) facility at the University of Tokyo, one of the pioneers of AMS research in Japan, will host the first Pre-conference Workshop on September 6 2002, and the National Museum of Japanese History (the “REKIHAKU”) will present the second Pre-conference Workshop on September 7 2002. Then the venue moves from Tokyo to Nagoya. The main conference will be held from September 9 to September 13 2002, at the Toyoda Auditorium of Nagoya University, located at the Higashiyama Campus in Chikusa ward, Nagoya city, Aichi prefecture, Japan.

Pre-conference Workshop I will involve 10 oral presentations and Pre-conference Workshop II will involve 11 oral and one poster presentation. Main sessions of AMS-9 will present 247 contributions (102 oral and 145 poster) to around 250 participants from 23 different countries. The program consists of plenary sessions for invited talks and contributed talks, parallel sessions for contributed talks, and two poster sessions. We have tried to minimize the parallel sessions, but they are necessary to accommodate the large number of interesting oral contributions. Since the two lecture halls are large and close together, you can easily move from one to the other. Also organized is a full day tour to Nagoya Castle, Tokugawa Art Museum, some traditional houses, the Toyota car factory and Meiji-mura Museum, concluding with dinner at the Imperial Hotel, built by the famous architect Frank Lloyd Wright. The Imperial Hotel was first built in Tokyo and was later transferred to Meiji-mura Museum as a memorial. We have also planned activities for accompanying

persons. We hope all participants will enjoy not only the scientific programs but also the social events.

Thanks are due to the many that were involved in the organization of AMS-9. We would like to express our sincere thanks to the International Advisory Committee, voluntary participants in program preparation, and the sponsors. Without their support, none of this could have come true.

Toshio NAKAMURA, chairperson of AMS-9
Representative of the Organizing Committee in Japan

Conference correspondence address

AMS-9 Conference
Center for Chronological Research, Nagoya University
Chikusa, Nagoya 464-8602 Japan
Tel: +81-52-789-3082, Fax: +81-52-789-3092
E-mail: ams9@nendai.nagoya-u.ac.jp
<http://www.nendai.nagoya-u.ac.jp/AMS-9/>

Conference chairperson

Toshio Nakamura, Center for Chronological Research, Nagoya University
E-mail: nakamura@nendai.nagoya-u.ac.jp

International Advisory Committee

D. Elmore, USA
L. K. Fifield, Australia
H. E. Gove, USA
P. M. Grootes, Germany
Z. Guo, China
R. E. M. Hedges, UK
J. Heinemeier, Denmark
A. J. T. Jull, USA
J.C. Kim, Korea
W. Kretschmer, Germany
W. Kutschera, Austria
A. E. Litherland, Canada

E. Nolte, Germany
M. Paul, Israel
G. Possnert, Sweden
K. H. Purser, USA
G. M. Raisbeck, France
S. H. Sie, Australia
M. Suter, Switzerland
C. Tuniz, Australia
J. van der Plicht, Netherlands
J. S. Vogel, USA
K. von Reden, USA
F. Yiou, France

Organizing Committee in Japan

Mineo Imamura, National Museum of Japanese History (REKIHAKU)
Hiroyuki Kitagawa, Nagoya University
Toshikatsu Kitamura, Mutsu Establishment, Japan Atomic Energy Research Institute (JAERI)
Koichi Kobayashi, Institute of Accelerator Analysis, Ltd.
Hiroyuki Matsuzaki, The University of Tokyo
Shiro Mitarai, Kyushu University
Hatsuho Miyada, Tono Geoscience Center, Japan Nuclear Cycle Development Institute (JNC)
Masafumi Murayama, Kochi University
Hisao Nagai, Nihon University
Yasuo Nagashima, University of Tsukuba
Masanobu Nakamura, Kyoto University
Toshio Nakamura, Nagoya University
Kunihiko Nishiizumi, University of California, Berkeley
Hirotaka Oda, Nagoya University
Mitsuru Okuno, Fukuoka University
Yasuyuki Shibata, National Institute for Environmental Studies (NIES)
Minoru Yoneda, National Institute for Environmental Studies (NIES)
Kunio Yoshida, The University of Tokyo

Conference secretary

Yuri H. Tanaka

Conference location

Workshop I (September 6, 2002)

Yayoi Auditorium, Research Center for Nuclear Science and Technology,

The University of Tokyo,

2-11-16 Yayoi, Bunkyo-ward,

Tokyo 113-0032, JAPAN

Fax: +81-3-5841-2950

Workshop II (September 7, 2002)

Lecture Hall, National Museum of Japanese History (REKIHAKU)

117 Jo-nai, Sakura, Chiba 285-8502 Japan

Fax: +81-43-486-4299

Main conference (September 9-13, 2002)

Toyoda Auditorium, Nagoya University Symposion

Nagoya University

Chikusa, Nagoya, 464-8601

Tel: +81-52-789-5111

Transportation in Japan

Transportation advice after you arrive in Japan is provided in the Second Circular. This Circular contains additional hints and important home pages you should check before arrival.

Useful home pages for transportation in Tokyo and Nagoya

Narita Airport

Airport guidance: www.narita-airport.or.jp/airport_e/index.html

www.narita-airport.or.jp/airport/

Ground transportation/rail/: www.narita-airport.or.jp/airport_e/access/train/index.html

Ground transportation/rail/: www.keisei.co.jp/keisei/tetudou/accesse/index.htm

Ground transportation/rail/: www.world.eki-net.com/

Ground transportation/road/: www.limousinebus.co.jp/

Kansai Airport

Airport guidance: www.kansai-airport.or.jp/english/index.htm

Airport access map: www.kansai-airport.or.jp/english/access/index.htm

Ground transportation/rail/: www.kansai-airport.or.jp/english/access/trains.htm

Ground transportation/rail/JR west/: www.kansai-airport.or.jp/english/access/jrwest.htm

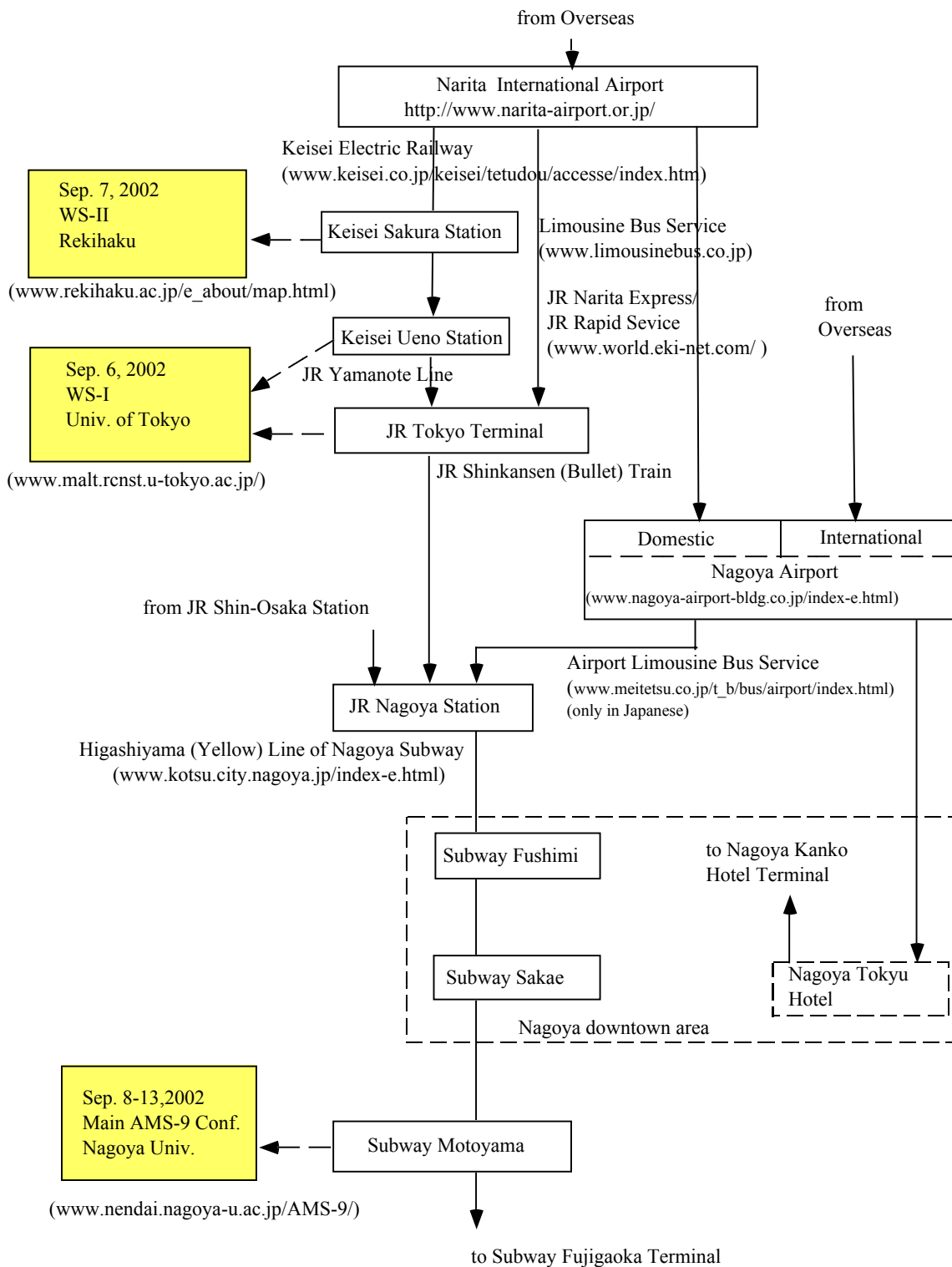
Nagoya Region

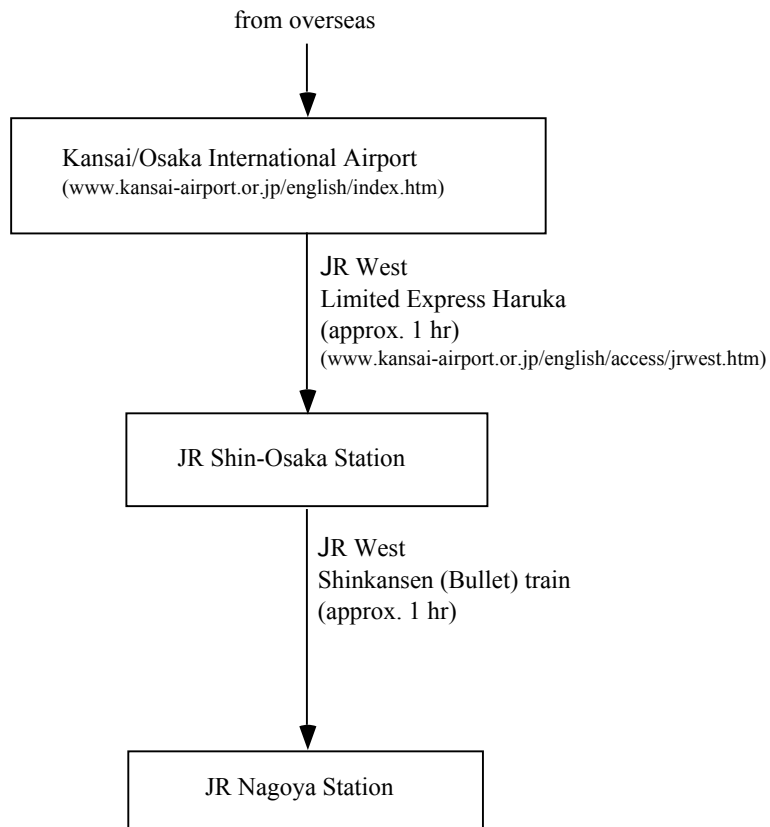
Airport guidance: <http://www.nagoya-airport-bldg.co.jp/index-e.html>

Access from Airport: <http://www.nagoya-airport-bldg.co.jp/access/index-e.html>

Airport Limousine Bus Service: www.meitetsu.co.jp/t_b/bus/airport/index.html

Transportation Bureau, City of Nagoya: www.kotsu.city.nagoya.jp/index-e.html





Diagrams of transportation in Japan

General information on the main conference at Nagoya University

Mobile phone numbers in an emergency

AMS-9 Conference desk: 090-1561-4813

JTB Event & Convention Service (JECS): 090-7319-3662

Conference desk location and opening hours

Open at the lobby of Toyoda Auditorium during the following days:

Sep. 8 Sunday 17:00-20:00 (Registration and other services by JECS: 17:00-20:00)

Sep. 9 Monday 08:00-20:00 (08:00-18:00)

Sep. 10 Tuesday 08:30-18:30 (08:30-18:00)

Sep. 11 Wednesday 08:30-12:00 (08:30-12:00)

Sep. 12 Thursday 08:30-20:00 (08:30-18:00)

Sep. 13 Friday 08:30-16:00 (08:30-16:00)

Registration information

Participants who have pre-registered should pick up their registration package at the Conference desk. Registration at the Conference desk will start from 17:00, Sunday, September 8.

On-site registration

If you have not registered in advance, you will find an on-site registration form at the Conference desk located in the lobby of Toyoda Auditorium. Registration fee covers the welcome reception, abstract volume, conference reception and coffee breaks.

Payment

Payments for registration, conference excursions, post conference trips and accommodation must be in Japanese Yen, and can be paid by credit card (American Express, Diners, Visa, Master card) or cash.

E-mail and internet connection

Three Macintosh computers will be available for e-mail and web browsing. You should prepare your own account on a remote web mail service, e.g., Hotmail or Yahoo, and use the web browser to exchange e-mails. Three ethernet (100 Base T) connections will be available for your own notebook computers.

Conference site

Floor plan of the main conference site is provided in the figures. (Please consult the abstract book to be distributed at registration)

Oral sessions

(1) Presentation length

Plenary sessions will be held in the Toyoda Auditorium. If conference sessions are conducted in parallel, Session A will take place in the Toyoda Auditorium and Session B in the Symposium Hall. Two keynote lectures and a conference summary will take one hour each. Two special lectures will take 50 minutes each, and three lectures in the “Future problems” session and one lecture in the “AMS standards, intercomparison, ^{14}C calibration” session will take 30 minutes each. All other contributed papers will take 15 minutes. All include time for discussion.

(2) Equipment in lecture halls

One LCD projector (for PowerPoint presentations) and one over-head projector will be available in each of the two lecture halls. For lectures in the Toyoda Auditorium and in the Symposium Hall, SANYO LP-XF40 and EPSON ELP-7700 projectors will be prepared, respectively. A few other LCD projectors will be prepared for emergency uses. A mini D-sub 15 pin connector is used to connect between a notebook computer and a LCD projector. Speakers can bring their own computers to connect to the LCD projector, but we will prepare Macintosh and Windows computers with CD-R drivers and PowerPoint software. If you have a CD-R with a PowerPoint presentation, please use the PowerPoint 98 version or later. In addition, it is recommended that your PowerPoint file and the Picture files used in the presentation are located in the same folder. Font and language compatibility problems are always possible, and we recommend that you use your own computer. Files for your presentation on CD-R should be named as follows: Name, Day, Session number, for example, Nakamura0910o7B1.ppt. Speakers should submit their CD-R media to the Conference desk no later than closing the night before the presentation.

(3) LCD connection test

We have prepared a few LCD projectors in the computer room on the second floor of Toyoda auditorium for the connection tests in advance. Please consult with personnel at the Conference desk if you want to test the connection.

(4) OHP transparencies to back up a LCD projector trouble

Since we cannot guarantee that every computer can be connected to our LCD projector or that every PowerPoint file will open and run successfully, speakers are strongly urged to bring a backup version of their visual presentation in the form of OHP transparencies.

If you have any questions or problems, please feel free to contact the Conference secretary, Yuri H. Tanaka (ams9@nendai.nagoya-u.ac.jp).

Poster sessions

Poster presentations take place in the Lobby of Toyoda Auditorium. Posters may be fixed with adhesive tape or pins, available at the conference desk. The width of each poster panel is 900 mm (please note that this is slightly smaller than the width (950 mm) previously announced in the 2nd Circular). The height of the panel is 2100 mm. Poster session 1 is scheduled for Monday evening; posters assigned to this session can be mounted on Sunday evening and must be removed by Tuesday evening. Poster session 2 will take place on Thursday evening; the corresponding posters can be mounted from Wednesday morning, and must be removed before 14:00 on Friday.

A competition for the best posters is planned. The best posters of high scientific quality as well as of good appearance are voted in each poster session. The authors will be celebrated at the Conference Dinner or at the Farewell party.

Coffee and tea

Coffee, tea and refreshments (included in the conference fee) will be available during the breaks in the lobby of Toyoda Auditorium.

Snacks and lunch – not provided

There are several choices for lunch. A few Japanese style and western style restaurants are located nearby, as well as cafeterias and canteens in the university campus.

City maps

A brief Nagoya city map with the Higashiyama Campus, Nagoya University is provided in the figures. A detail map is enclosed in your conference bag.

Parking and public transportation

Parking space on the Higashiyama campus of Nagoya University is quite limited, and you are requested to avoid using a private car to come to the campus. The entrance gate is electrically controlled, and you will need to purchase a ticket (magnetic card) to go through the gate. If you exit the campus at any time, you must pay again to re-enter the gate.

The subway system is quite simple (limited) and you will only need to use the Higashiyama (yellow) line, which connects Nagoya Station, the downtown area and Motoyama station. Use Exit No.3, round the corner and walk south (gently ascending slope) to the Higashiyama Campus (a map is enclosed to show the route from Motoyama Station to the Higashiyama Campus). The walk takes about 10 minutes. A bus service (Number 11 or 12) is available from Motoyama subway station to the campus (200 Japanese Yen), but is not recommended for use because of frequent traffic jams.

Conference proceedings

The AMS-9 Conference Proceedings will be published as a special volume of Nuclear Instruments and Methods in Physics Research B (NIM B). Invited papers will be limited to 8 journal pages, and contributed papers will be limited to 4 pages. Each submitted paper will undergo the standard refereeing procedure for NIM B. The total number of pages of the proceedings will be limited to 1000.

Following the custom begun with AMS-8, we will request manuscripts for the proceedings about one month after the conference. Most participants welcomed this change, as it allowed editing of manuscripts to take into account discussions that occurred at the conference. In order to meet the publishing schedule of the proceedings, however, the deadline for submission of manuscripts is set at November 1, 2002. Detailed submission formats will be announced later.

No manuscripts will be accepted after this deadline.

Social program

AMS-9 offers several opportunities to meet and talk with friends and colleagues. Participants and accompanying persons are welcome.

* Sunday, September 8, 17:00-20:00: Informal welcome reception during registration

* Wednesday, September 11, 17:30-19:30: Conference dinner at the Imperial Hotel, Meiji-mura Museum. The conference excursion ends up at the Museum. Participants not attending the excursion can contact the conference desk for details.

* Friday, September 13, 19:00-21:00: Nagoya Beer Hall at 2-16-15 Chikusa, Chikusa-ward. Tickets for this event (4000 Japanese Yen including buffet and drinks) should be purchased before Thursday, 14:00.

The AMS laboratory is very near the Toyoda Auditorium (about 50 meters). Please have a look at an AMS system based on 3 MV HVEE Tandetron accelerator, and sample preparation systems. Since space is limited, please consider other participants. Neither drinks nor food are served in the laboratory tour.

Sightseeing program

A variety of tours will be offered by the JTB Event and Convention Service (JECS) during and after the conference. For organized tours, please consult the representative of this agency who will be present at the conference desk throughout the conference.

Industrial exhibition

More than ten companies related to AMS techniques and applications will present and advertise their products during the conference. Participants can take advantage of this opportunity to look at their displays.

Site for AMS-10

During AMS-9, we need to consider organizing the next AMS conference. It is well known that there are arguments concerning the unification of the Radiocarbon conference and AMS conference, or for a year's spacing between the two conferences. However, it is already decided that the 18th Radiocarbon Conference will be held in 2003 in New Zealand and AMS-10 will be held in 2005.

As was done at previous AMS meetings, we will have an opportunity on the last day of the Conference for all AMS groups to show their interest in hosting AMS-10. As usual, the host of AMS-10 will not be decided at this time, but we would like to organize a ballot to select the next host with the help of all colleagues who attended the AMS-8 or AMS-9 Conferences.

We would like to ask those AMS groups who are interested in hosting AMS-10 to advertise not only their AMS facilities, but public facilities in towns or cities, in about 15 minutes.