

The 7th East Asia Accelerator Mass Spectrometry Symposium (EA-AMS-7)

Sunday, 19 November 2017 - Saturday, 25 November 2017

Guangxi Normal University

Scientific Programme

The 7th East Asia Accelerator Mass Spectrometry Symposium (EA-AMS 7)

Guangxi Normal University, Guilin, China

November 20-25, 2017

The 7th East Asia AMS Symposium

3rd announcement

The Seventh East Asia Accelerator Mass Spectrometry (EA-AMS-7) will be held in Guangxi Normal University, Guilin, China, from November 20th to 25th 2017, the Eleventh Anniversary of the first Symposium. Since the first Conference occurred at Tsukuba in 2006, there have now been six further symposiums on the development and applications of AMS in various fields include new facilities, future Ion sources, advances in AMS techniques, reference material, preparation and analysis of small samples, cosmogony isotopes, etc. Now, it is our pleasure to invite all colleagues working on AMS related fields to EA-AMS-7. All subjects on AMS and its applications are welcome to be presented in the symposium. We hope all of you come and enjoy the symposium with exciting lectures and the stunning landscape in Guilin.

'East or west, Guilin landscape is best!' Located in the northeast of Guangxi Zhuang Autonomous Region in south China, Guilin is considered to be the pearl of China's natural beauty and historic treasures. The stunning landscape in which the city is situated has a kind of magic that is all its own. The strangely shaped hills or karsts, with the verdant vegetation ranging from bamboos to conifers together with crystal clear waters and wonderful caves

make the city such an appealing destination

The team at the Guilin AMS Laboratory is excited to welcome you all to Guilin. Book your travel early and bring the whole family!

We look forward to seeing you in Guilin.

Yours Sincerely,

On behalf of the Organizing Committee of EA-AMS

Director of the CIAE-AMS Lab
Director of the GXN-AMS Lab

Prof. Shan Jiang
Prof. Hongtao Shen

China Institute of Atomic Energy
Guangxi Normal University

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Scientific Committee (Listed alphabetically)

Dr. George Burr, Arizona, USA

Prof. Hiroyuki Matsuzaki, Japan

Prof. Hongchun Li, Chinese Taipei

Prof. Hongtao Shen, GXNU, China

Prof. Jongchan Kim, Korea

Prof. Kimikazu Sasa, Japan

Prof. Liping Zhou, Beijing, China

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Dr. Quan Hua, ANSTO, Australia

Prof. Shan Jiang, Beijing, China

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Prof. Wan Hong, KIGAM, Korea

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Prof. Li Ou, GXNU, China

Prof. Ming Liu, GXNU, China

Fangyu Chen, GXNU, China

Qiaoli Mo, GXNU, China

Session Topics (temporally)

1. Status report and technical development

2. Carbon-14 age calibration and Archaeology applications

3. Earth and environmental sciences applications (^{10}Be , ^{36}Cl and ^{129}I etc.)

4. AMS and heavy nuclides

5. General AMS applications

6. Other suggestions

Important Dates Deadlines

Before Dec. 31, 2016 1st announcement

April 30-July 31, 2017 Delivery of registration form and Abstract submission

Extended to August 31, 2017 (to email: ams@gxnu.edu.cn)

Before June 30, 2017 2nd announcement

Jun 30-August 31, 2017 Early registration

>October 31, 2017<
Final announcement and program

November 20-23, 2017 EA-AMS 7 symposium

November 24-25, 2017 Post-conference excursions

Preliminary Agenda

11/19/2017

15:00 ~18:00 pm Registration in the lobby of Department of Physics at GXNU

11/20/2017

- 8:00 ~9:00 am Registration in the lobby of the conference hall
- 9:00~9:10 am Welcome Speech by Prof. Su,Gui-Fa (President of GXNU)
- 9:10~9:20 am Welcome Speech by Prof. Jiang,Shan. (China institute of Atomic Energy)
- 9:20~9:30 am Welcome Speech by Prof. Wang, Ning (Director,College of Physics,GXNU)
- 9:30~9:50 am Group Photo
- 9:50~10:20 am Coffee Break
- 10:20~10:50 am Fink,David; ANSTO,Australia; The new AMS Centre for Accelerator Science at ANSTO — a vision to the future.
- 10:50~11:15 am Jiang, Shan*; CIAE,China; How to Develop the AMS Machine Techniques in the Near Future
- 11:15~11:45 am Sasa, Kimikazu*; U. Tsukuba, Japan; Progress in Multi-nuclide AMS for the 6 MV AMS System at the University of Tsukuba
- 11:45~12:15 pm Hong, Wan*; KIST,Korea; Status Report of KIGAM AMS Lab
- 12:15~13:30 pm Lunch
- 13:30~13:55 pm HE ,Ming; CIAE,China; The status report of AMS facility at CIAE
- 13:55~14:25 pm Nakamura, Toshio*; Nagoya U., Japan; Present status and application studies with ¹⁴C AMS system at Nagoya University (2015/16/17)
- 14:25~14:55 pm Li, Hong-Chun*; National Taiwan U.,Taiwan;Progress report of the NTUAMS Lab since EAAMS-6
- 14:55~15:25 pm Kim, Joonkon; KIST,Korea; Report on the first 4 years of maintenance of the HVE 6 MV Tandetron

15:25~15:50 pm Dong, Kejun; Tianjin U.China; The new XCAMS facility at Tianjin University

15:50~16:10 pm Coffee Break

16:10~16:35 pm Syanl, Hans-Arno; ETH,Zurich,Switzerland; New trends in AMS: What can we expect from future AMS systems?

16:35~17:00 pm Sundquist, Mark; NEC, USA; The End of Radiocarbon AMS? The Design and Performance of a New Instrument using Positive Ion Mass Spectrometry (PIMS)

17:00~17:25 pm Stodola, Stephanie; NEC, USA; Expansion of Researcher Needs and Applications Drives Electrostatic Accelerator Innovation and Renovation

17:25~17:50 pm Zhao,Qingzhang; CIAE,China; Developing measurement method of tritium with accelerator mass spectrometry at CIAE

11/21/2017

8:00~8:30 am Registration in the lobby of the conference hall

8:30~9:10 am Jull, Anthony*; U.Arizona,USA; What do rapid excursions in the carbon-14 record in tree rings tell us about solar activity and other effects?

9:10~9:40 am Matsuzaki, Hiroyuki*; U. Tokyo, Japan; MALT-AMS system for the environmental assessment in the aspects of human nuclear activity

9:40~10:10 am Xu, Xiaomei*; U.California,USA; Variation of bomb-radiocarbon in atmospheric CO₂:a time series from Point Barrow, Alaska in the past 14 year

10:10~10:35 am Zhang, Xuelian; CASS,China; Dating on Xiaozhushan Site

10:35~10:55 am Coffee Break

10:55~11:20 am Korschinek, Gunther; Tech. U.München,Germany; Recent Developments for AMS at the Munich Tandem Accelerator

11:20~11:45 am Dai, Xiongxin; China Inst. Radi. Prot.,China; Ultra-sensitive Determination of Actinides in Urine Bioassay Samples using Compact Accelerator Mass

Spectrometry

11:45~12:10 am Hosoya, Seiji; U. Tsukuba, Japan; Calcium-41 and Strontium-90 measurements with 6MV AMS

12:10~12:35 am Guan, Yongjing; Guangxi U., China; Determination of neptunium-237 in environmental samples using AMS

12:35~13:30 pm Lunch

13:30~14:00 pm Hua, Quan*; ANSTO, Australia; Marine Radiocarbon - An Overview

14:00~14:25 pm Gao, Pan; Peking U., China; Radiocarbon in the maritime air and sea surface water of the South China Sea

14:25~14:55 pm Li, Hong-Chun*; National Taiwan U., Taiwan; AMS ^{14}C applications in geoscience studies at NTUAMS Lab

14:55~15:20 pm Zhao, Min; CAS, China; Dual carbon isotope ($\delta^{13}\text{C}$ - $\Delta^{14}\text{C}$) characteristics in spring-pond system under different land-use at Puding karst-analog test site

15:20~17:20 pm Poster session (including coffee time)

17:20~18:00 pm AMS Lab tours

11/22/2017

8:00~8:30 am Registration in the lobby of the conference hall

8:30~9:10 am Fink, David*; ANSTO, Australia; Tick-tock there is a clock in my rock —the many worlds of cosmogenic dating and tracing with ^{10}Be and ^{26}Al

9:10~9:40 am Imamura, Mineo*; Natl. Muse. J. Hist., Japan; Application of Beryllium-10 to Provenance Study in Archaeology

9:40~10:05 am Shen, Hongtao*; Guangxi Normal U., China; Study on Multiple radionuclides for Exposure Age Dating of Chinese Tiankeng

10:05~10:40 am Coffee Break

10:40~11:10 am Burr, George*; CAS,China; UV Dissolved Organic Carbon extraction from seawater

11:10~11:35 am Yang, Bin; ANSTO,Australia; Micro Conventional Furnace III and the application for Separation/Combustion of <0.5% volume CO₂ and CH₄ gas

11:35~12:00 am Luo, Maoyi; China Inst. Radi. Prot.,China; Measurement of Actinides in Soil and Aerosol Samples by AMS

12:00~13:30 pm Lunch

13:30~17:00 pm Field trip to the other Forbidden City in China - Jingjiang Princes' City, Duxiu Hill and East West Street

18:00~20:00 pm Conference banquet/ Oral & Poster prize award for student presentation

11/23/2017

8:00~8:30 am Registration in the lobby of the conference hall

8:30~9:10 am Zhou, Weijian*; CAS,China; Progress of environmental tracing using multi-radionuclides as chronometers and tracers in Xi'an AMS center

9:10~9:40 am Matsunaka, Tetsuya*; Kanazawa U., Japan; Rapid C-14 measurement system at the University of Tsukuba and application for nuclear safety

9:40~10:20 am Matsuzaki, Hiroyuki*; U. Tokyo, Japan; Study on the natural iodine isotope system

10:20~10:45 am Zhang, Luyuan; CAS,China; A 60-year record of ¹²⁹I in the Taal Lake sediment, Philippines: Influence of human nuclear activities at low latitudes

10:45~11:15 am Coffee Break

11:15~12:00 am Business meeting, Summary statement and discussion for the next Symposium
Closing of EA-AMA 7, Chairperson: Prof. Jiang, Shan

12:00~13:30 pm Lunch

13:30~17:00 pm Field trip to the Guilin Museum and Daxu Ancient Town.

11/24~11/25/2017

8:00 am Post conference excursion to Yangsuo (Li River, XiJie street) and Xin' an (Lingqu Canal) for field trips. As one of China's top tourist destinations, the Li River is honored to be the largest and most beautiful karst gallery of the world, making it a must see during your Guilin vacation. (<http://www.liriver.com.cn>), In Xin' an, we will visit the Lingqu Canal, with its ancient origin in the Qin Dynasty (221 - 207BC), is one of the oldest and most well-preserved canals in the world (<http://www.lingqu8.com/>) .

Session 11: Poster session (size is 120cm high and 80cm wide)

NO.		First Author/Presenter	Title
T1	Poster	Chen,Ning	Level and characteristic of 129I of rain samples in Xi' an region, China
T2	Poster	Cheng, Peng	Authentication of Chinese vintage liquors using bomb-pulse 14C
T3	Poster	Du,Hua	The built of micrograms carbon sample graphitisation system and AMS Radiocarbon analysis at Xi'an AMS Center
T4	Poster	Fu, Yunchong	Preliminary study of 10Be/7Be in rainwater from Xi'an by Accelerator Mass Spectrometry
T5	Poster	Fu, Yunchong	A new capability for 41Ca analysis using CaF3- at Xi' an-AMS
T6	Poster	Hou, Yaoyao	Low-flow pressure gradient poumping for active absorption of CO2 on a molecular sieve and its application

T7 Lab	Poster	Kang, Su-Chen	The results of Inter-comparison samples in the NTUAMS during 2015-2017
T8 Low	Poster	Kusuno, Haruka	Improvements of Speciation Methods for Seawater with Iodine-129
T9	Poster	Liu, Shenghua	A new extended 1 MV multi-element AMS facility in the Institute of Hydrology and Environmental Geology, Chinese Academy of Geological Sciences (IHEGCAGS)
T10	Poster	Niu, Zhenchuan	Observations of Atmospheric $\Delta^{14}\text{C}\text{O}_2$ at the Global and Regional Background Sites in China
T11	Poster	Park, GyuJun	Development of Mass-Selective Procedure of Silk Pretreatment for Radiocarbon Dating — Molecular Weight Distribution of Silk
T12	Poster	Qi, Liu	A new AMS laboratory at Beijing Normal University in China
T13	Poster	Wu, Shugang	Variation of atmospheric $^{14}\text{C}\text{O}_2$ and its spatial distribution
T14	Poster	Xian, Feng	The status and new measurements techniques in radionuclides of Xi'an AMS Center
T15	Poster	Xing, Shan	Speciation of ^{129}I and ^{127}I in snow and seawater in the Antarctic
T16	Poster	Xiong, Xiaohu	A pilot study on $\Delta^{14}\text{C}\text{O}_2$ in plants dark respiration
T17	Poster	Wang, Zongli	Graphite Targets Preparation for AMS ^{14}C Dating in the Radiocarbon Laboratory of Lanzhou University
S1	Student Poster	Chang, I-Wei	AMS ^{14}C and ^{210}Pb dating on a 51-cm sediment core from Santa Barbara Basin, CA: old carbon source

- S2 Student Poster Chen, You-Syuan Chronological construction of a stalagmite from Altai Mountain, Siberia, Russia
- S3 Student Poster Dong, Yanmin AMS 14C dating of a peat core from Bosten Lake in Xinjiang, China
- S4 Student Poster Lien, Wanyin Instrumental and stalagmite records of rainfall variations during the past 60 years in Guangxi, China
- S5 Student Poster Liou, Min-shou Temporal Variation of Carbon-14 concentration in tree-ring near Lake Taal, Central Philippines
- S6 Student Poster Meng, Qi TianKeng Sample Preparation for 36Cl-AMS
- S7 Student Poster Ochiai,Yuta Correlation between the 36Cl deposition flux and solar activity
- S8 Student Poster Sun, Jingjing Variation of moss species and recent carbon accumulation rate in the Hani and Jingchuan bog during the past 60 years
- S9 Student Poster Takano, Kenta 36Cl record in the Antarctic ice core around the cosmic-ray event of 5480 BC and improved 36Cl AMS at the University of Tsukuba
- S10 Student Poster Wang,fangfang 60Fe measurement with AMS at CIAE
- S11 Student Poster Wang,Yanyun Sources and the distribution of 129I in the surface soil samples from the Northeast China
- S12 Student Poster Xia, Yangyang The graphitization line of the NENU radiocarbon Lab
- S13 Student Poster Yang, Qiannan Bomb 14C curve and recent carbon accumulation rate in the Hani peat during the past 60 years

Registration and fees

The registration fee is RMB¥2000 (or US\$300)/person before 8/31/2017, and RMB¥2500 (or US\$360)/person after 8/31/2017. (Student registration fee is RMB¥1250 (or US\$190)/person before 8/31/2017, and RMB¥1550 (or US\$230)/person after 8/31/2017). The registration fee will cover meeting materials, daily coffee breaks and lunches, Conference Banquet (Tuesday evening), bus transportations and admission tickets in the afternoon of 11/21/2017 to Guilin Forbidden City and Duxiu hill, and 11/23/2017 to Guilin Museum, Daxu Ancient Town.

Fees for the Post conference excursion to Yangsuo and Xin'an are RMB¥1000/person that includes bus transportation, park entrance fee, insurance and accommodation (hotels and meals) from 8:00 am 11/24 to 5:00 pm 11/25/2017.

Please wire-transfer your registration fee and field trip fee of Post conference excursion to the account below. After you have done the transfer, please e-mail the proof to ams@gxnu.edu.cn. The registration fee also can be paid on site.

APPOINTED OFFICES HANDLING INTERNATIONAL BUSINESS

Bank name (银行名称): Industrial and Commercial Bank of China (中国工商银行)

Account name (账号名称): Guangxi Normal University (广西师范大学)

Account number (账号): 2103 2151 0926 4004 618

Branch Name (分行名称): GUILIN BRANCH (桂林分行)

Address: 16-2, Zhongshan Road, Guilin, Guangxi, P.R. CHINA. (中国广西桂林市中山中路16号)

TEL: (0773) 2824721

Country Code: +86

SWIFT CODE: ICBKCNBJGLC

Please specify the remittance purpose “EA-AMS-7 REGISTRATION FEE” .

Symposium Venue and Hotel

11/20~11/23/2017, The symposium will be held in the International Education Center Conference Hall (Second floor) , Guangxi Normal University (广西师范大学国际教育交流中心二楼报告厅),
<http://english.gxnu.edu.cn/Gallery/ShowGallery/20>

For living places, the following places are around the university and have contract with our university so that the rate is better than the normal prices. These houses and hotels are rated 2-star or higher. All the prices listed here need to go through our reservations (by email: ams@gxnu.edu.cn) . when you make reservation, please indicate whether you need two beds or one bed for two persons. Also, you could book your hotel through other ways.

1、桂林山水大酒店 (Gulin Shanshui Hostel), Price: RMB¥212/single, RMB¥250/Double, breakfast is included. 桂林市七星区七星路48号 (No.48 Qixing Road , Guilin, China),

2、汉庭酒店 (Hanting Hotel) Price: RMB¥200/single, RMB¥220/Double, breakfast is included. 桂林市普陀路40号 (No.40 Putuo Road , Guilin, China),

3、桂林喀舍悦景酒店 (Guilin Kashe Jing Yue Hotel), Price: RMB¥260/single, RMB¥280/Double, breakfast is included. 桂林七星区普陀路12号 (No.12 Putuo Road , Guilin, China).

4、碧居山庄 (Biju Mountain Villa Restaurant) , Price: RMB¥200/single, RMB¥230/Double, no breakfast. 桂林市普陀路40号 (No.40 Putuo Road , Guilin, China).

5、广西师范大学国际教育交流中心 (GXNU international education center Hotel — in the GXNU campus) Price: RMB¥180/single, RMB¥200/Double, no breakfast. 桂林市育才路15号 (No.15 Yucui Road, Guilin, China).

6、桂林东江高尔夫庭院酒店 (Guilin dongjiang g1of Hotel), Price:¥250/single, RMB¥300/Double, breakfast is included. 七星区普陀路43号 (No.43, Qixing Putuo Road , Guilin, China).

[How to get to GXNU](#)

By air: You can make your connecting flight to Guilin via Beijing, Shanghai or Guangzhou. Guilin international airport is about 28 km away from Guilin City, from where you can take Shuttle Bus (25 RMB) to Guilin Urban District(Civil Aviation Building)and then take a bus (NO.16), and get off at Chaoyang road station to our university.

By railway: There are three railway station in Guilin, if you arrive in Guilin railway station, take bus(No.16), and get off at chaoyang road station to GXNU; if you arrive in Guilin North railway station, take bus (No.32), and get off in chaoyang road station; if you arrive in Guilin east railway station, you can firstly take bus (No.22) to Xiqin lake station and then take bus (No.30) to GXNU station.

How to get your hotel,

n Figure 2, the hotels are shown in numbers below:

1、桂林山水大酒店(GulinShanshui Hostel),

2、汉庭酒店 (Hanting Hotel)

3、桂林喀舍悦景酒店 (Guilin Kashe Jing Yue Hotel)

4、碧居山庄 (Biju Mountain Villa Restaurant)

5、广西师范大学国际教育交流中心 (GXNU international education center Hotel—at

Conference site)

桂林东江高尔夫庭院酒店
(Guilin
dongjiang golf Hotel)

How to get the conference hall and the department of Physics

We will have a reception desk in the international education center Conference Hall (Second floor) (Figs. 3 and 4). Our people there will help you for the registration.

Abstract submission

Abstract format should be in English, Time New Roman font and size 12. The maximum length of the abstract is 3 pages, so that you may insert key figures and tables. Set up the margin of 2.5 cm for all sides. The submission deadline is July 31, 2017. Please complete your abstract as early as possible and email it to ams@gxnu.edu.cn. A template abstract form is attached with the circular.

Contact information

The Organizing Committee will help you as much as we can. Our team members are:

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