

4th International Workshop on
Infrared Microscopy and Spectroscopy with
Accelerator Based Sources



Awaji Yumebutai International Conference Center
Awaji-Island, Hyogo, Japan
September 25th – 29th, 2007

Final Announcement



Preface

The 4th International workshop on Infrared Microscopy and Spectroscopy with Accelerator Based Sources (WIRMS 2007) is held from September 25 to 29, 2007, at Awaji Yumebutai International Conference Center which is a resort complex located in Awaji Island, Japan. This is the first time the WIRMS workshop is held in Asia, following the highly fruitful workshop at Porquerolles (France, 2001), Lake Tahoe (USA, 2003) and Rathen (Germany, 2005).

First we would like to pay our respect to the members of International Advisory Board for the agreement to hold the workshop in Japan. The workshop held for the first time in the Asia will encourage particularly the scientists around Asia and contribute to expand the aim of the WIRMS workshop to the world wide.

The opportunity to perform the Infrared Microscopy and Spectroscopy with Accelerator Based Sources is now expanding widely in the world and the achieved successful performance is getting year by year more important to supply with new opportunities in the science in the infrared to THz regions.

For WIRMS 2007, we have received over 90 abstracts from more than 10 countries. They were categorized into 8 fields as reflected in the program. The oral presentations are arranged in tandem sessions to promote mutual communication about the recent developments in related scientific fields. The poster session is held in the evening of the opening day, which provides an opportunity to dedicate more time to the discussion of works with interested colleagues in a casual atmosphere with light meals and drinks provided.

WIRMS 2007 is financially sponsored by The Commemorative Organization for the Japan World Exposition ('70), Inoue Foundation for Science, Hyogo International Association, and Tsutomu Nakauchi Foundation. In addition, it is sponsored through corporate exhibitions at the workshop site and advertisements in the abstract book. We would like to thank all these sponsors. We would also like to express our sincere gratitude to the authors of the papers and the participants for making WIRMS 2007 a success.

We hope that all of you will enjoy WIRMS 2007 and find it productive.

Sincerely yours,

Takao Nanba
Hidekazu Okamura
Hiroaki Kimura
Shin-ichi Kimura
Workshop Co-chairs



Organized by

*Graduate School of Science, Kobe University
UVSOR Facility, Institute for Molecular Science
SPring-8, Japan Synchrotron Radiation Research Institute
FIR Center, University of Fukui
SLLS Center, Ritsumeikan University
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WIRMS 2007 Home page

<http://www.uvsor.ims.ac.jp/WIRMS2007/index.htm>

Outline of WIRMS 2007

Scope

WIRMS2007 will be the 4th WIRMS meeting and follows the highly successful workshops at Porquerolles in 2001, Lake Tahoe in 2003 and Rathen in 2005. The scope of the workshop is to bring together SR & FEL scientists and synchrotron-IR & FEL-IR users to discuss the latest developments and trends as well as the future directions of the fields, and to promote even more promising applications. Another important mission of this workshop is for the active experts to provide young researchers and graduate students with a good introduction to this rapidly advancing field.



Topics

1. Infrared spectroscopy - from solid state to biological substances and gas phase.
2. IR-to-THz spectroscopy under extreme conditions.
 - a IR-to-THz spectroscopy under high pressures.
 - b IR-to-THz spectroscopy under high magnetic fields.
 - c IR-to-THz spectroscopy under multi-extreme conditions.
3. IR-to-THz microspectroscopy and imaging.
 - a Near field microscopy, spectroscopy and imaging.
 - b Application of IR-to-THz microspectroscopy and imaging.
4. Time-resolved spectroscopy.
5. Coherent synchrotron radiation as a powerful IR-to-THz source.
6. Advances in IR-to-THz radiation based on accelerators.
 - a Other new developments on FEL's and synchrotrons relevant for the IR-to-THz region.
 - b Other accelerator based sources.
7. Facility news & updates.
 - a New facilities and updates.
 - b New beamlines and updates.
8. Others.

Committee

International Advisory Board

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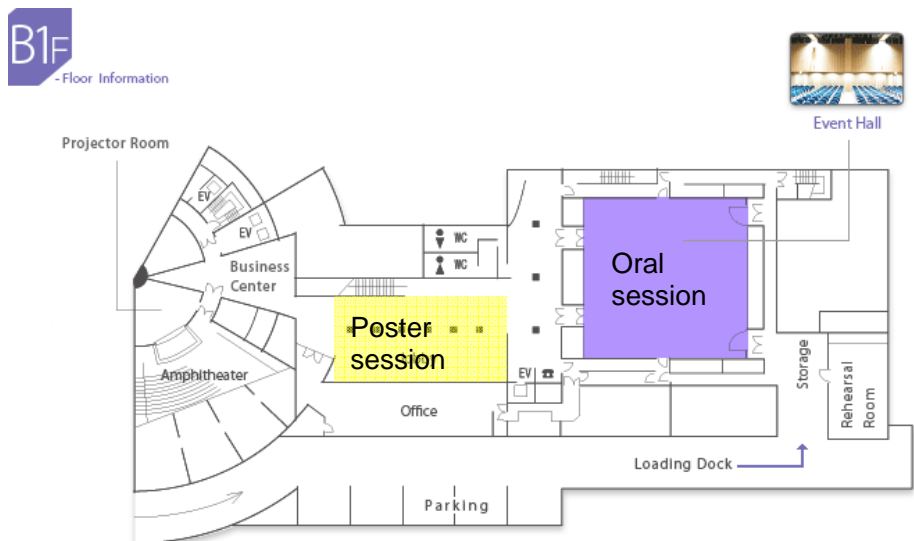
Venue

The WIRMS 2007 workshop site is the Awaji Yumebutai International Conference Center (<http://www.yumebutai.org/english/index.html>). Awaji Yumebutai is a resort complex that features beautiful seasonal flowers and greenery. ("Yumebutai" means "dream stage" in Japanese.) It is located close to the northern end of Awaji Island, where one can enjoy the spectacular landscape of Akashi Straits and Akashi Kaikyo Bridge. It is the world's longest suspension bridge, which connects Awaji Island to Kobe on the main island of Japan. (There will be a cruising tour of Akashi Straits as a part of WIRMS activities.) Kobe is one of the major Japanese cities, and can be reached easily from the major airports and other areas of Japan. Within an hour of bus/train ride from Yumebutai, one can visit downtown Kobe for various attractions, or other cities such as Himeji, best known for the Himeji Castle designated as a World Heritage by UNESCO. Detailed information regarding the transportation to Awaji Yumebutai can be found in the Yumebutai web-site.



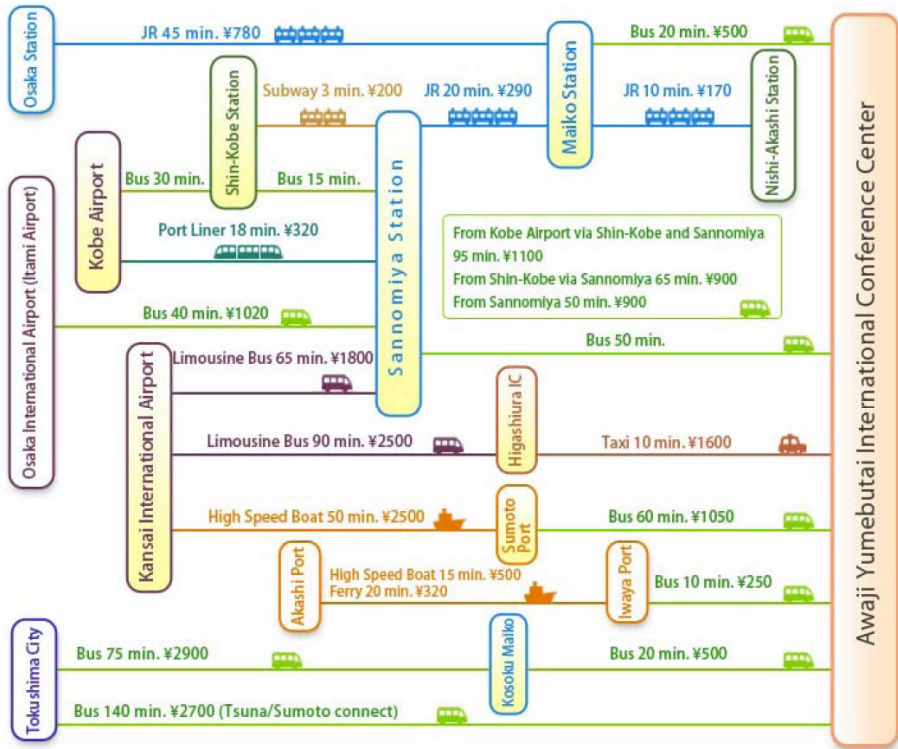
Workshop Place

Oral sessions will be held in the Event Hall, and the poster session and vender exhibition will be held at the Lobby, both of which are located in the “B1” floor (basement) of the Awaji Yumebutai International Conference Center.



Travel

By Public Transportation



Shown below are the two most likely cases for overseas participants:

- (1) If your airplane arrives at Kansai Int'l Airport or Osaka Int'l Airport: Take Airport limousine bus bound for Kobe Station (65 minutes and 1,800 Yen from Kansai Airport, 40 minutes and 1,020 Yen from Osaka Airport), then take the Express Bus to Yumebutai from Sannomiya Station (900 Yen, 45 minutes).

(2) If your airplane arrives at Tokyo, Nagoya or other international airports: You can take Express Bus to Yumebutai at Maiko or Sannomiya stations (JR local trains) or at Shin-Kobe station (JR Shinkansen superexpress trains). Use JR trains to get to one of these stations from the airport, then take the Express Bus.

By car/bus/shuttle

You can access Awaji Yumebutai in :

- 30 min. from Kobe (Sannomiya) - 30 km
- 60 min. from Osaka (Umeda) - 60 km
- 90 min. from Kansai International Airport (via the Hanshin Highway Wangan Line and Akashi Kaikyo Bridge) - 100 km
- 50 min. from Osaka International Airport (via the Chugoku Expressway, Hanshin Highway Kitakobe Line, and Akashi Kaikyo Bridge) - 75km
- 45 min. from Kobe Airport - 45 km
- 70 min. from Tokushima Airport - 85 km
- 5 min. along Route 28 from Awaji IC exit or Higashiura IC exit on Kobe Awaji Naruto Expressway.

Detailed information, in particular the time table and the map of bus terminal at Sannomiya and other stations, can be found at this URL: <http://www.yumebutai.org/english/access/access.html>

Accommodation

Rooms are available at the "Westin Awaji Island Resort" hotel located next to the workshop site, Awaji Yumebutai International Conference Center. Special discounted hotel rates for the WIRMS participants will be (per night, per person, including breakfast, service charge and tax) 13,860 yen for single occupancy, 10,736 yen for double occupancy, and 8,505 yen for triple occupancy. Although less expensive hotel (Hotel EBISU, etc.) can be found, they are not located near Yumebutai, and the transportation is inconvenient. We strongly recommend that the participants stay at the Westin Awaji. A roommate matching service will be provided for those who wish to share a room with other WIRMS participants. WIRMS 2007 cannot guarantee a roommate, but will be glad to help the participants in this matter. Information about the roommate matching will be posted soon on the WIRMS web site.



Westin Awaji Island : Next to the Conference Venue

HOTEL EBISU : 4 minutes by bus from the Conference Venue to Oiso Port bus stop 3 minutes walk from bus stop.

General Information

Climate

The weather at the end of September is generally nice and comfortable, with an average temperature of 23 °C (73 °F).

Electricity

Japanese power line voltage is 100 V. Therefore, a converter will be needed to use European 230 V. European and other countries' plugs except for US will not fit and you will need an adapter for Japanese plugs. Bringing a note PC to Japan is easy; most run both 100 and 230 V.



Language

The official language of the workshop is English.

Network System

Internet connections by Wireless LAN are available in the conference hall, lobby or foyers on each floor of the International conference center.

If you are a guest of the AWAJI Westin hotel, wireless LAN is available at the 2F Lobby and Moe gallery (10:00-19:00) on 2nd floor. Please ask the hotel staff for more information.

For guest rooms on 4th floor, you can connect to Internet with a LAN cable. For guest rooms on its 5th through 10th floors, you need a modem to connect to Internet. The number of available modems is limited so please ask the front desk when you check in.

For guest of Hotel Ebisu, you can connect to Internet at the cafeteria on 1st floor by wireless LAN. Internet connections are not available in guest rooms.

Discount Coupons for Lunch

Discount coupons will be provided to conference participants in order to reduce the cost of meals at restaurants within the hotel complex. A participant will receive three coupons, each of which is valid for a 1,000 Yen discount, for the lunches on September 26th (Wednesday), 27th (Thursday) and 28th (Friday). The tickets are free and will be handed out on registration. Coupons are dated and are only valid for the specified date and time. Present the coupon when you order. Costs in excess of the coupon values should be covered personally and the balance is not refundable. (only one coupon per person per meal) Coupons are not provided for dinner on the 27th (Banquet) and the dinner on the 28th.



Restaurants and a cafe in the Yumebutai offer various dining options to suit your taste within easy walking distance of the conference center.

(See the restaurant guide or <http://www.yumebutai.org/english/food/restaurant.html>).

Currency exchange

We recommend that you exchange money at the airport. You can also exchange from the US dollar, Euro, Pound, Australian dollar and Canadian dollar to the Japanese yen at the front desk of the conference site. However you cannot exchange from the Japanese yen to foreign currencies.



Banquet / Cruising Tour

Workshop banquet will be held on the evening of September 27th (Thursday), as a part of cruising tour from Kobe Port to the Akashi Straits. The WIRMS participants will enjoy the night view of the Akashi Straits and the Akashi Kaikyo Bridge from a large cruise boat while enjoying a buffet-style dinner. The participants will leave Yumebutai by bus at 5:00 pm. The bus will go through the Akashi Kaikyo Bridge before arriving at Kobe Port, and the cruise boat will leave Kobe Port at 7:30 pm. After the cruise, the participants will come back to Yumebutai by bus again.



Tour to SPring-8 / Himeji Castle

SPring-8 (The largest synchrotron radiation facility in the world) site tour (bus trip) will be held on the last day of the workshop, September 29th. After the SPring-8 tour, you may participate in a tour of the Himeji Castle, a World Heritage designated by UNESCO. Please register at the registration desk if you would like to participate. The schedule for the tour is the following.



9:00-11:00: Transportation by bus from Yumebutai to SPring-8.

11:00-14:00: SPring-8 tour (Overview, infrared beamline, XFEL prototype facility) and lunch (SPring-8 cafeteria).

14:00-15:00: Transportation by bus from SPring-8 to Himeji Station (JR train).

15:00-17:00: Tour of the Himeji Castle. (You may leave before the Himeji Castle tour, if you prefer to do so.)

NOTE that the bus will NOT return to the Yumebutai Conference Center. So if you would like to stay at Yumebutai on the night of September 29th, you will have to go back to Yumebutai yourself. Even if you will not go back to Yumebutai, if your flight takes off on September 30th, you will have to find a hotel in Himeji or near your airport for the night of 29th. We recommend that you reserve a hotel in Kobe or Osaka (there are many airport limousine buses from these cities to both Kansai and Osaka Int'l Airports), or near the Airport. (You can also find a hotel in Himeji, but there are much fewer limousine buses from Himeji.) Please contact us if you need assistance in reserving a hotel for the night of September 29th.



Contacts

If you are interested in the workshop please contact us and register your e-mail address.

Secretariat of this conference
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Phone: +81-791-58-0987
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Scientific Program

Program Outline

	Sept. 25	Sept. 26	Sept. 27	Sept. 28	Sept. 29
		Session	Session	Session	
9:00		Opening session	Extreme conditions 1	CSR 1	SPring-8 site tour
10:00		Microspectroscopy and imaging 1	Coffee break	Coffee break	
11:00		Coffee break	Extreme conditions 2	CSR 2	
12:00		Microspectroscopy and imaging 2			
13:00		Lunch	Lunch	Lunch	
14:00		Spectroscopy	New facilities	Microspectroscopy and imaging 4	
15:00		Coffee break	Coffee break	Coffee break	
16:00		Microspectroscopy and imaging 3	Light sources	Microspectroscopy and imaging 5	
17:00		[Vender presentation]	Go to Kobe harbour via Akashi Kaikyo Bridge by bus	Closing session	
18:00	Registration				
19:00	Welcome Party	Poster session	Banquet		
20:00			[Kobe bay cruise]		
21:00			Back to hotel by bus		
22:00					

Language

The official language of the workshop is English.

Proceedings

All authors of contributions to WIRMS2007 are invited to submit a paper to appear in the conference proceedings and to be published in a refereed journal Infrared Physics and Technology. Each paper contributed will be subject to standard refereeing procedures.

Two submission methods:

1. One original and two copy manuscripts and an electric file by CD-ROM or memory-stick is submitted at the registration desk on the beginning day of the workshop (Sept. 25).
2. One set of electric files (text, figures) is sent to the workshop secretariat, wirms2007@spring8.or.jp, by Sept. 24. The oral/poster number and your registration number must be indicated in the subject.

Length limit:

Contributed oral/poster papers is 2-4 printed pages.

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INFRARED PHYSICS & TECHNOLOGY

Elsevier invites scientists at WIRMS 2007 to submit their papers for publication in a special issue of Infrared Physics and Technology. Submission instructions can be found at www.sciencedirect.com/science/journal/01694453 or contact George Neil, neil@jab.org at the conference for further information.

Editors
G. Neil,
Thomas Jefferson National Accelerator Facility, USA
H.N. Rutt,
University of Southampton, UK

www.physicsconnect.com

Invited papers is 4-6 printed pages.

Note:

One registered participant can submit only one contributed paper. The invited speakers can submit one contributed paper other than the invited paper. The paper which is not presented in the conference either in oral or poster session will not be published in the proceedings.

Color figures can be accepted but the printed figures become grayscale.

Since the total page of the proceedings is limited to be less than 100, the submitted paper will be reviewed strictly.

Information for Presenters

Oral Presentation

Length of talk:

Invited talk: 30 min (25 min talk + 5 min discussion)

Oral Contribution: 20 min (15 min talk + 5 min discussion)

A PC projector with mini D-sub 15 pin connector (XGA) is available.

We will also prepare a Windows PC and a MAC. However, we recommend that you bring your own PC to avoid any incompatibilities.

If you would like to use OHP slides for your presentation, advance notification would be appreciated.

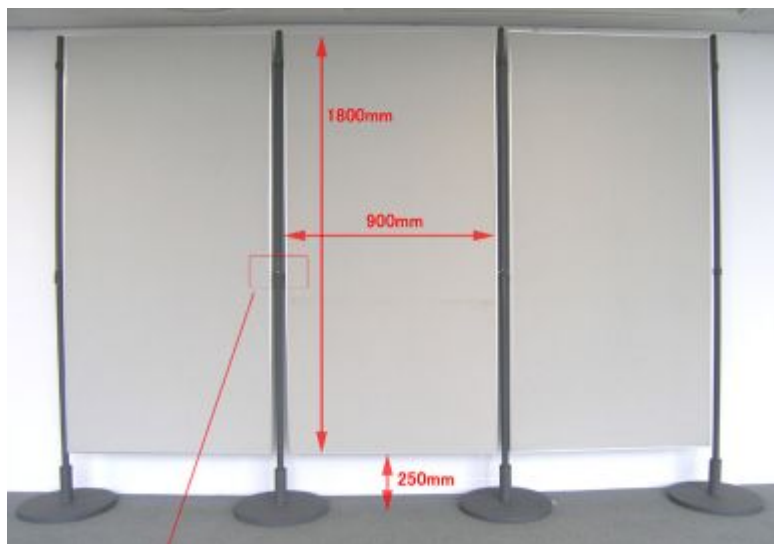
Poster Presentation

Size of poster board: H: 1,800 mm × W: 900 mm.

Poster session will be held on Wednesday night, Sept. 26th.

Posters can be mounted from afternoon on Wednesday 26th through to noon on Friday 28th.

Materials for attaching posters to the display boards will be provided.



Time table

	Sept. 25	Sept. 26		Sept. 27		Sept. 28		Sept. 29
		Session		Session		Session		
9:00		Opening remark		27-I-01 L. Degiorgi		28-I-02 G.P. Williams		SPring-8 site tour [This tour visits at SPring-8 and Himeji Castle. The final destination is Himeji station.]
		26-H-01 T. Nanba [History]		27-I-02 H. Okamura		28-O-01 M.Martin (on behalf of J.M. Byrd)		
10:00		26-H-02 G.P. Williams [History]		27-O-03 A. Irizawa		28-O-03 T. Idehara		
		26-I-03 J.-M.Ortega		Coffee break		Coffee break	Registration	
		26-I-04 S.C. Schneider		27-I-04 Z. Liu		28-I-04 U. Schade	Vender exhibition	
11:00		Coffee break		27-O-05 T. Nanba		28-O-05 T. Takahashi		
		26-O-05 P. Dumas		27-O-06 A. Perucchi		28-O-06 A. Mochihashi		
		26-O-06 B. Gasharova		27-O-07 J. Lee		28-O-07 Y. Shoji		
12:00		26-O-07 A. Bitzer		Lunch		Lunch		
13:00		Lunch		27-I-08 C. Hirschmugl		28-I-08 M. Martin		
14:00		26-I-08 P. Calvani		27-O-09 T. May		28-O-09 P. Yu		
		26-I-09 S. Kimura		27-O-10 M. Gensch		28-O-10 F. Hahn-Melendres		
15:00		26-O-10 A. Thoman		27-O-11 G. Isoyama		28-O-11 E. Yonemochi		
		26-O-11 K. Tsuzuku		Coffee break		Coffee break		
16:00		Coffee break		27-O-12 H. Yamada		28-O-12 Z. El-bayyari		
		26-I-12 G.L. Carr		27-O-13 S. Takahashi		28-O-13 N. Miyoshi		
		26-O-13 T. Sasaki				28-O-14 M.J. Nasse		
17:00		26-O-14 Z-J. Xin				28-O-15 A.C. Marcelli		
		26-O-15 Y-C. Lee				P. Dumas [Closing remark]		
		[Vender presentation]				Announcement of next WIRMS		
18:00	Registration			Go to Kobe harbour via Akashi Kaikyo Bridge by bus				
19:00	Welcome Party							
20:00		Poster session [Light meals and drinks are available.]		Banquet [Kobe bay cruise]				
21:00								
22:00				Back to hotel by bus				

Program

Oral session

Sept. 25

18:00-20:00 **Get together party**

Sept. 26

Opening session

9:00-9:15 Opening + Announcement

9:15-9:35 26-H-01 IRSR history I T. Nanba

9:35-9:50 26-H-02 IRSR history II G.P. Williams

Microspectroscopy and imaging 1

9:50-10:20 26-I-03 Nano-chemical mapping performed by an AFM-based ("AFMIR") acoustooptic technique and applications A.Dazzi, R. Prazeres, F. Glotin, J.-M. Ortega

10:20-10:50 26-I-04 Phonon-enhanced scattering near-field optical microscopy and spectroscopy of anisotropic ferroelectrics using the FELBE free electron laser S. Schneider, S. Grafström, S. Winnerl, D. Stehr, M. Helm, L.M. Eng

10:50-11:10 Coffee break

Microspectroscopy and imaging 2

11:10-11:30 26-O-05 Subcellular infrared analysis using synchrotron: detecting drug interaction with cancer cells S. Srichan, M. Refregiers, F. Jamme, V. Rouam and P. Dumas

11:30-11:50 26-O-06 Single crystal IR microscopy and X-ray powder diffraction study of the α -Ca₂[SiO₃(OH)](OH) - Ca₆[Si₂O₇][SiO₄](OH)₂ phase transformation upon thermal decomposition of α -C₂SH in Air Biliiana Gasharova, Krassimir Garbev, Peter Stemmermann

11:50-12:10 26-O-07 High-resolution THz Field Imaging in the Frequency- and Time -Domain A. Bitzer, M. Walther, A. Kern, H. Helm

12:10-14:00 Lunch

Spectroscopy

14:00-14:30	26-I-08	Study of the superconducting gap in B-doped diamond by coherent THz radiation	S. Lupi, M. Ortolani, L. Baldassarre, P. Calvani, U. Schade, Y. Takano, M. Nagao, T. Takenouchi, H. Kawarada
14:30-15:00	26-I-09	Infrared Magneto-Optical Imaging on Correlated Materials	Shin-ichi Kimura
15:00-15:20	26-O-10	Nanostructured gold films as broadband THz antireflection coatings	A. Thoman, A. Kern, H. Helm, M. Walther
15:20-15:40	26-O-11	Evaluation of the local homogeneity fluctuation of sinter of the small chip size MLCCs by means of mid-infrared spectroscopy	Koichiro Tsuzuku, Tomoya Hagiwara, Shunsuke Takeoka, Yuka Ikemoto
15:40-16:00		Coffee break	
Microspectroscopy and imaging 3			
16:00-16:30	26-I-12	Infrared Microspectroscopic Imaging Combining Focal Plane Array Detection and Dipole Synchrotron Radiation Source	G.L. Carr, R.J. Smith, A. Acerbo, L.M. Miller, T.J. Tague Jr., R.S. Jackson
16:30-16:50	26-O-13	Infrared Imaging in the Strongly Correlated Molecular Conductors	T. Sasaki, N. Yoneyama, N. Kobayashi, Y. Ikemoto, H. Kimura
16:50-17:10	26-O-14	Fast FTIR Microspectroscopic Imaging by Focal Plane Array	Z.-J. Xin, P. Codd, L. McNicholl, J. Headspith, R. Farrow, M. Tobin, M. Chesters
17:10-17:30	26-O-15	Spatially Resolved Synchrotron Radiation based Infrared Microspectroscopy of Malignant Human Colorectal Tissues	Yao-Chang Lee, Ching-lue Chen, Pei-Yu Huang
17:30-18:00		Vender presentation	
18:30-21:30		Poster session	

Sept. 27

Extreme conditions 1

9:00-9:30	27-I-01	Infrared study of the pressure dependence of the charge-density-wave gap in rare-earth tri-tellurides	A. Sacchetti, M. Lavagnini, A. Perucchi, E. Arcangeletti, L. Baldassarre, P. Postorino, S. Lupi, N. Ru, I.R. Fisher, L. Degiorgi
9:30-10:00	27-I-02	Infrared Study of Pressure-Induced Valence Crossover in Yb	H. Okamura, K. Senoo, S. Ishida, M. Matsunami, Y. Ikemoto, T. Moriwaki, T. Nanba

10:00-10:20	27-O-03	Observation of the electronic states for strongly correrated electron systems under high-pressure and low-temperature probed by infrared microscope	A. Irizawa, K. Sato, K. Shimai, K. Kobayashi, T. Murakami, K. Iiduka, M. Nishiyama, H. Okamura, T. Nanba, M. Matsunami, H. Sugawara, H. Sato, S. Niitaka, H. Takagi
10:20-10:40		Coffee break	
Extreme conditions 2			
10:40-11:10	27-I-04	Synchrotron Infrared Spectroscopy under Extreme Conditions	Zhenxian Liu, Russell J. Hemley
11:10-11:30	27-O-05	Pressure induced heavy electron states in TmTe	Y. Taniguchi, A. Irizawa, K. Shimai, K. Iizuka, T. Nanba, T. Matsumura
11:30-11:50	27-O-06	Infrared study of pressure-induced Insulator to Metal Transitions in Vanadium Oxide compounds at the SISSI@Elettra beamline	A. Perucchi, L. Baldassarre, E. Arcangeletti, D. Di Castro, P. Postorino, S. Lupi
11:50-12:10	27-O-07	Microspectroscopic investigation on the electric-pulse-induced insulator-metal transition of VO ₂ /Al ₂ O ₃ films	J. S. Lee, M. Ortolani, U. Schade, Y. J. Chang, T. W. Noh
12:10-14:00		Lunch	
New facilities			
14:00-14:30	27-I-08	Synchrotron Infrared Microspectroscopy Imaging Using a Multi-Element Detector (IRMSI-MED) for Diffraction-Limited Chemical Imaging	M. J. Nasse, R. Reininger, T. Kubala, S. Janowski, C. Hirschmugl
14:30-14:50	27-O-09	Mid infrared beamline commissioning at the CLS	T. May, L. Quaroni, C. Hyett, T. Ellis
14:50-15:10	27-O-10	New THz Undulator-Beamline at the VUV FEL FLASH	M. Gensch, L. Bittner, A. Chesnov, H. Delsim-Hashemi, M. Drescher, B. Faatz, J. Feldhaus, U. Fruehling, G.A. Geloni, O. Grimm, U. Hahn, M. Hesse, S. Kapitzki, V. Kocharyan, O. Kozlov, E. Matyushevsky, N. Morozov, D. Petrov, E. Ploenjes, M. Roehling, J. Rossbach, E.L. Saldin, B. Schmidt, P. Schmueser, E.A. Schneidmiller, E. Syresin, A. Willner, M.V. Yurkov
15:10-15:30	27-O-11	Development of FEL and SASE in the Far-Infrared Region at ISIR, Osaka University	G. Isoyama, R. Kato, S. Kashiwagi, T. Igo, Y. Morio
15:30-15:50		Coffee break	

Light sources

15:50-16:10	27-O-12	Optimized MIRRORCLE as a high power FIR Source	Hironari Yamada Ahsa Moon, Nobuhiro Miura
16:10-16:30	27-O-13	EPR spectroscopy with injection-locked UCSB free-electron laser	Susumu Takahashi, Gerald Ramian, Mark S. Sherwin, Louis Claude Brunel, Johan van Tol

17:00-22:00 **Excursion + banquet**

Sept. 28

CSR 1

9:00-9:30	28-I-02	Applications of Intense CSR at Jefferson Lab	J. M. Klopf, G. P. Williams
9:30-9:50	28-O-01	Coherent Terahertz Radiation at ALS	J. M. Byrd, M. C. Martin
9:50-10:10	28-O-03	Development of a THz Gyrotron FU CW Series for application to high power THz technologies	T. Idehara, T. Saito, I. Ogawa, S. Mitsudo, Y. Tatematsu, La Agusu, H. Mori, T. Kanemaki
10:10-10:40		Coffee break	

CSR 2

10:40-11:10	28-I-04	Applying Coherent Synchrotron Radiation at the Storage Ring BESSY II: From Spectroscopy to THz SNOM	U. Schade, P. Calvani, M.C. Martin, P. Kuske, J.S. Lee, M. Ortolani, G. Staats, G. Wüstefeld
11:10-11:30	28-O-05	Observation of THz Coherent Transition Radiation from Single-Bunch Beam at KURRI-LINAC as an Intense Pulsed Light Source	T. Takahashi, K. Takami
11:30-11:50	28-O-06	Quasi-Monochromatic Coherent Synchrotron Radiation in Uniform Magnetic Field	A. Mochihashi, M. Katoh, S. Kimura, M. Shimada, M. Hosaka, Y. Takashima, T. Hara, T. Takahashi, S. Bielawski, C. Szwaj, C. Evain
11:50-12:10	28-O-07	Measurement of the time structure of CSR burst in NewSUBARU	Y. Shoji, T. Mitsui

12:10-14:00 Lunch

Microspectroscopy and imaging 4

14:00-14:30	28-I-08	IR Spectroscopic Imaging of Charge Injection in Organic FETs	Z. Q. Li, G. M. Wang, V. Podzorov, N. Sai, D. Moses, Michael C. Martin, M.E. Gershenson, M. Di Ventra, A. J. Heeger, D. N. Basov
14:30-14:50	28-O-09	Synchrotron Infrared Microspectroscopic Studies on Feed Research at Cellular and Molecular Levels	Peiqiang Yu, J. McKinnon, D. A. Christensen
14:50-15:10	28-O-10	In Situ Synchrotron Far Infrared Micro-spectroelectrochemistry with a Grazing Angle Objective	F. Hahn, Y.-L. Mathis, A. Bonnefont, F. Maillard and C.A. Melendres
15:10-15:30	28-O-11	Evaluation of Dispersion State of the Two Racemic Compounds of Troglitazone in Pharmaceutical Granules using IR-to-THz imaging	E. Yonemochi, M. Bunko, T. Moriwaki, Y. Ikemoto, K. Terada
15:30-15:50		Coffee break	
Microspectroscopy and imaging 5			
15:50-16:10	28-O-12	Flow Cell Design for IR Microspectroscopy of Living Biological Cells	Z. El-bayyari, M. J. Nasse, S. Rath, S. Ratti, C. Hirschmugl
16:10-16:30	28-O-13	FT-IR image of TiO ₂ /Pp-IX particles in tumor tissue	N. Miyoshi, Y. Fukunaga, T. Moriwaki
16:30-16:50	28-O-14	Rapid Assessment of Resource Partitioning in Algae with IR Spectromicroscopy	M. J. Nasse, A. Norici, S. Ratti, R. Julian, C. Hirschmugl, M. Giordano
16:50-17:10	28-O-15	In situ and time-resolved analysis of mesostructured films by simultaneous FTIR and SAXS experiments	P. Innocenzi, L. Malfatti, T. Kidchob, S. Costacurta, P. Falcaro, M. Piccinini, A. Marcelli, P. Morini, D. Sali, H. Amenitsch
Closing session			
17:10-17:25		Closing remark	P. Dumas
17:25-17:35		Announcement of next WIRMS	

Sept. 29

9:00-17:00 Tour to SPring-8 / Himeji Castle

Poster session (Sept. 26, 18:30-21:30)

P-01	Simulation and optimization of Synchrotron infrared micro-spectroscopic beamlines using wave optics computation	O. Chubar, M. Cotte, J. Susini, F. Polack, K. Scheidt, P. Elleaume, P. Dumas
P-02	Near-Infrared Storage Ring Free Electron Laser Experiments at AIST	N. Sei, K. Yamada, H. Ogawa, M. Yasumoto
P-03	Beam diagnostics with uncooled fast IR detectors	A. Bocci, M. Cestelli Guidi, A. Drago, A. Marcelli, E. Pace, M. Piccinini, J. Piotrowski
P-04	Statistical Analysis of Intensity Fluctuations of SASE by use of the Autoregressive Model	R. Kato, S. Kashiwagi, T. Igo, Y. Morio, G. Isoyama, H. Sakaki
P-05	The Turkic Accelerator Complex IR FEL Project	O. Karsli, A. Aksoy, O.Yavas
P-06	Development of IR-FEL Facility for Energy Science in Kyoto University	H. Zen, T. Kii, K. Masuda, H. Ohgaki, T. Yamazaki
P-07	The Infrared MicroSpectroscopy beamline at Diamond: design study	G. Cinque, M. Frogley
P-08	The far-infrared beamline (port 02B1-1) at the Canadian Light Source Inc.	D. Appadoo, T. May, R. McKellar
P-09	A new beamline for infrared microscopy in the SR center of Ritsumeikan	T. Yaji, Y. Yamamoto, T. Ohta, S. Kimura
P-10	Present Status of IR-THz Beamline BL6B at UVSOR-II	S. Kimura, E. Nakamura, T. Mizuno, T. Iizuka
P-11	Beamline for VUV/IR pump probe experiments at FLASH	M. Gensch, U. Fruehling, E.A. Schneidmiller, M.V. Yurkov, E.L. Saldin, V. Kocharyan, J. Rossbach, M. Drescher, E. Ploenjes, J. Feldhaus
P-12	The upgrade of infrared beamline at NSRL	Zeming Qi, Chengxiang Li, Liusi Sheng
P-13	BL43IR at SPring-8 Redirected	T. Moriwaki, Y. Ikemoto
P-14	Development and status of the activities at the SISSI mid-IR beamline	D. Eichert, L. Vaccari, F. Morgera, L. Gardossi, A. Tossi, S. Pacor
P-15	High Resolution Far-Infrared Spectroscopy at NSLS Beamline U12IR	G.L. Carr, R.J. Smith, L. Mihaly, H. Zhang, D.H. Reitze, D.B. Tanner
P-16	Coherent THz Pulses and Electro-Optic Modulation Effects from Ultra-Short Relativistic Electron Bunches	Y. Shen, D. Arena, T. Watanabe, T. Tsang, C.-C. Kao, J.B. Murphy, X.-J. Wang, G.L. Carr
P-17	Time-resolved IR spectroscopy of quantum-optics in semiconductors	M.D. Frogley, G. Cinque, J. F. Dynes M. Beck, J. Faist, C.C. Phillips

P-18	Generation of 0.1 THz Coherent Synchrotron Radiation with Compact S-band Linac at AIST	R. Kuroda, N. Sei, M. Yasumoto, H. Toyokawa, H. Ogawa, M. Koike, K. Yamada
P-19	Spectrum of Coherent Synchrotron Radiation from the JAEA Energy Recovery Linac	T. Takahashi, E. J. Minehara, R. Hajima, N. Nishimori, M. Sawamura, R. Nagai, N. Kikuzawa, H. Iijima, T. Nishitani, S. Okuda
P-20	Spectrum Measurement of THz CSR via Laser Bunch Slicing at UVSOR-II	M. Shimada, M. Katoh, M. Hosaka, A. Mochihashi, Y. Takashima, S. Kimura, T. Hara, T. Takahashi
P-21	An Intense Terahertz Radiation Source at the Planned Test ERL in Japan	K. Harada
P-22	Control of Impurity Diffusion in Silicon by IR Laser Excitation	K. Shirai, H. Yamaguchi, H. Katayama-Yoshida
P-23	Spatial Distribution of Hydrous Defects in Orthopyroxene	R. Stalder
P-24	Low Temperature Spectral Study of Nitric Oxide Reactions with Solid FeIII(OEP)(NO ₃)	Gurgen M. Gulyan, Astghik A. Hovhannisyan, Tigran S. Kurtkryan
P-25	A New Approach to Concordance in Mid-infrared Spectromicroscopy Mapping of Malignant Tumors.	Kaiser Ali, Todd Reichert, Daniel Gomez, Yanjie Lu, Alexander Jan, Colleen Christensen
P-26	Fourier Transform Infrared Spectromicroscopy and Hierarchical Cluster Analysis of Human Meningiomas	K. Ali, Y.J. Lu, C. Christensen, T. May, C. Hyett, R. Griebel, D. Fournay, K. Meguro, L. Resch, R. K. Sharma
P-28	Trans-cis isomerization of 1, 2-dichloroethylene induced by IR Free Electron Laser at Tokyo University of Science (FEL-TUS)	K. Kuramochi, Y. Kato, K. Tsukiyama
P-29	Infrared MCD in Magneto-Resistive Ti ₂ Mn ₂ O ₇ Measured with Synchrotron Radiation	H. Okamura, T. Koretsune, T. Nanba, S. Kimura, H. Imai, Y. Kubo, Y. Shimakawa
P-30	Far-infrared and Millimeter Wave Spectroscopy of Superionic Conductors	T. Awano
P-31	Infrared Reflection-Absorption Spectroscopy Using Synchrotron Radiation at UVSOR-II	Y. Sakurai, S. Kimura, K. Seki
P-32	Photocurrent in Superconducting YBa ₂ Cu ₃ O _{7-x} Films Induced by an Infrared Free Electron Laser	K. Nishi, Y. Hatsukade, S. Tanaka, K. Awazu, H. Horiike
P-33	Infrared spectroscopy of ammonia cluster ions, NH ₄ ⁺ (NH ₃) _n (n = 3 and 4)	M. Tada, K. Tono, K. Fukazawa, N. Fukushima, T. Imai, K. Tsukiyama
P-34	Infrared spectroscopy of ammonia cluster ions II: Size evolution of infrared spectra and geometric structures of NH ₄ ⁺ (NH ₃) _n (n = 4–8)	K. Tono, M. Tada, K. Bito, H. Kondoh, T. Ohta, T. Imai, K. Tsukiyama

P-35	The infrared microspectroscopy beamline at CAMD	E. Morikawa, O. Kizilkaya, R. S. Perkins
P-36	Absorption Spectroscopy Using a Coherent Transition Radiation mm Wave Light Source	S. Okuda, T. Takahashi
P-37	Absorption Spectroscopy with Coherent Radiation for Poly (Vinyl Alcohol) Aqueous Solution Irradiated with Gamma Rays	S. Okuda, M. Shibayama, T. Kojima, T. Takahashi
P-38	Transmission of mm Wave Light through Polyethylene Plates Irradiated with Gamma Rays	M. Shibayama, S. Okuda, T. Takahashi
P-39	Reflection spectra of orthoenstatite crystal	H. Suto, H. Sogawa, T. Naoi, C. Koike, H. Chihara, K. Murata, T. Moriwaki
P-40	Hydrated Protein THz Dynamics Studied by FTIR beam line of MIRRORCLE 20	N. Miura, H. Yamada, A. Moon, T. Kitagawa
P-41	Dynamical water structure investigated by far-infrared spectroscopy utilizing synchrotron radiation from MIRRORCLE 20	N. Miura, H. Yamada, A. Moon
P-42	Pressure induced phase transition in germanium proved by IR-THz spectromicroscopic reflectivity measurement	K. Iizuka, A. Irizawa, K. Shimai, M. Nishiyama, T. Nanba
P-43	Terahertz Spectroscopy of SmS under Pressure	T. Mizuno, T. Iizuka, K. Matsubayashi, K. Imura, H.S. Suzuki, N.K. Sato, S. Kimura
P-44	Study of optical response of spinel oxides by utilizing IR-THz spectromicroscopy	K. Shimai, A. Irizawa, K. Sato, K. Iizuka, M. Nishiyama, T. Nanba, S. Niitaka, H. Takagi
P-45	Simulating THz Plasmons in Metals Using the FD2TD Technique and Variable Step Sizes	A. Kern, A. Thoman, A. Bitzer, H. Helm, M. Walther
P-46	Spatial Resolution Limits for Synchrotron-based Spectromicroscopy in the Mid- and Near-Infrared	E. Levenson, P. Lerch, M. C. Martin
P-47	The New Vacuum FT-IR Spectrometer: Design Advances and Research Application	M. Jörger, G. Zachmann
P-48	Broad Band Infrared Near-Field Spectroscopy at Finger Print Region Using SPring-8	Y. Ikemoto, T. Moriwaki, H. Okamura, T. Sasaki, N. Yoneyama, A. Taguchi, Y. Inouye, S. Kawata, T. Kinoshita
P-49	A Study of Fourier-transform Infrared Microspectroscopy of material in tissue under Top-up Injection Operation at NSRRC	Y.-C. Lee, C.-I. Chen, C.-Y. Liu, P.-Y. Huang
PD-01	Terahertz applications at the ENEA FEL Facility	A. Doria, G.P. Gallerano, E. Giovenale, G. Messina, I. Spassovsky, L. d'Aquino, A. Ramundo, A. Coppa, F. Evangelisti, V. Foglietti, K. Fukunaga
PD-02	Active electric near field imaging of electronic devices	A. Coppa, F. Evangelisti, V. Foglietti, E. Giovine, A. Doria, G.P. Gallerano, E. Giovenale, M. Peroni, A. Cetrionio, C. Lanzieri

PD-03	Using Synchrotron-Base FTIR Microspectroscopy to Rapid Characterize Molecular Chemistry and Nutrient Make-up and Microlocation of Internal Cereal Seed Tissue	P. Yu, K. Doiron, N. Liu, H. Block, Z. Niu, J.J. McKinnon
PD-04	Temperature dependence of infrared reflectance spectra of InN	K.Kurihara, T.Yanagawa, N.Nakagawa, K.Fukui, A.Yamamoto
PD-05	Terahertz imaging of frozen sectioned tissues of the transplanted tumor on a nude mouse	K.Kawakami, Y.Inoue, K.Fukui, N.Miyoshi
PD-06	Dramatic Change of Optical Properties at a Quantum Critical Point in the Heavy Fermion System CeNi _{1-x} CoxGe ₂	Y.Y. Song, K.E. Lee, J.B. Hong, H.J. Im, S. Kimura, Y.S. Kwon
PD-07	Hybridization gap-open in CeIn ₃	C.I. Lee, K.E. Lee, H.J. Im, S. Kimura, Y.S. Kwon
PD-08	Modeling of Particle Growth and Composition Distribution in the Gas Phase Copolymerization of Propylene and Ethylene Using Synchrotron Infrared Microspectroscopy Imaging	T. Nishioka, K. Katayama, S. Tanase, M. Oota, K. Tanaka, T. Konakazawa, Y. Ikemoto
PD-09	Remote control synchrotron for infrared spectromicroscopy	M.K. Ivory, M.C. Martin, B.R. Wood, P. Heraud
PD-10	Bunch compression at the SPring-8 linac and successive generation of THz pulse train in the isochronous ring	T. Asaka, H. Dewa, H. Hanaki, Y. Hisaoka, T. Kobayashi, T. Matsubara, T. Mitsui, A. Mizuno, Y. Shoji, S. Suzuki, T. Taniuchi, H. Tomizawa, K. Yanagida
PD-11	Increasing Speed and Resolution through Compressive Imaging	J. Gallet, M. Riley, Z. Hao, M.C. Martin
PD-12	Infrared Spectroscopy on YbS under High Pressure	M. Matsunami, H. Okamura, S. Shin, A. Ochiai, T. Nanba
PD-13	Terahertz spectral database of art materials	K. Fukunaga, I. Hosako, Y. Ogawa
PD-14	Towards absolute and traceable measurements of radiant power in the THz region	L. Werner, H.-W. Hübers, P. Meindl, R. Müller, H. Richter, A. Steiger
PD-15	FIR Beam Line of Tabletop Synchrotron MIRRORCLE-20	A. Moon, H. Yamada, N. Miura, M.M. Haque