

# **Hiroshima University**

## **Graduate School of Science**

INFORMATION for APPLICATION to  
HIROSHIMA UNIVERSITY

(Master's Program)

October 2007 Enrollment

Graduate School of Science  
HIROSHIMA UNIVERSITY  
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The Graduate School of Science, Hiroshima University, is seeking for foreign student applicants to the Master's program for enrollment in October 2007.

Preliminary selections will be done to reduce the number of applicants to within 30 by evaluating submitted application documents. Those selected will be given a written examination on Chemistry (in English) after the briefing session. Applicants will be further reduced to within 10 by this test according to scores and those selected will proceed to the oral examination (interview) held the next day. Those qualifying are to contact supervisors-to-be and carry out discussions. Those who pass this final process, will be sent enrollment application forms.

Since lectures in the Master's program will be held in Japanese, successful applicants are to take Japanese training courses provided by the Hiroshima University Beijing Research Center, located on the campus of Capital Normal University.

### Schedule until enrollment

2006	October	21 to 31	Application period for the Briefing Session
	November	15	Invitations to the Briefing Session will be distributed.
	December	7	Briefing Session and Written Examination
		8	Interview
		20	Announcement of examination results
2007		20 to Jan 20	Discussion period
	January	20 to 31	Application period for admission
	February	15	Announcement of admission
	March		Japanese language training (till September)
	September		Arrival in Hiroshima and enrollment procedures
	October	1	Enrollment

### [1] Enrollment Capacity

Department of Chemistry: up to 3.

### [2] Enrollment Application Requirements

A person of non-Japanese citizenship fulfilling one of the following conditions:

- (1) Has received a Bachelor's degree at a four-year university or college.
- (2) Is expected to receive a Bachelor's degree by the end of September 2007.

### [3] Briefing Session

A briefing session will be held for prospective applicants for the Master's Program of the department of Chemistry, Graduate School of Science.

For details on the briefing session, refer to the homepage of the Graduate School of Science.

(<http://www.sci.hiroshima-u.ac.jp/>)

Place	The Hiroshima University Beijing Research Center (on the campus of Capital Normal University), Beijing, Peoples Republic of China	
Date	Dec. 7 (Thur)	Briefing Session and Written Examination
	Dec. 8 (Fri)	Interview

The maximum number of participants for the briefing session is 30. Preliminary selections based upon the submitted application documents will be carried out if the number of applications exceed this number.

(1) Application period for the briefing session: Oct. 21 to 31, 2006.

(2) Where the application documents should be sent to:

Student Affairs Office, Graduate School of Science, Hiroshima University  
1-3-1, Kagamiyama, Higashi-Hiroshima 739-8526 Japan

(3) Required documents for Application (All documents are to be filled in English unless specified otherwise.)

Documents	Remarks
Application Form	Use the official form provided by the Graduate School of Science, Hiroshima University. Download from the homepage of the Graduate School of Science. A photo taken within three months must be attached in the upper right-hand corner for identification.
Grade Transcript	Official document(s) issued by the institution from which the applicant graduated or is expected to graduate.
Certificate of Graduation or Expected Graduation	Official document(s) issued by the institution from which the applicant graduated or is expected to graduate.
Two Letters of Recommendation	A letter of recommendation from the head of the department from which the applicant graduated or is expected to graduate using the official form issued by the applicant's department, and a recommendation using the official form provided by the Graduate School of Science, Hiroshima University filled out by the applicant's supervisor for the Bachelor's thesis.
Statement Sheet	Use the official form provided by the Graduate School of Science, Hiroshima University. Download from the homepage of the Graduate School of Science.
Grade Certificate(s) for Foreign Language Tests	TOEFL scores, Japanese Language Proficiency Test scores, and/or certified material of equivalence.

Note 1: Official documents written in languages other than English or Japanese must be translated into English or Japanese. Submit both the original and the translated documents.

Note 2: Submitted documents will not be returned.

Note 3: Qualifiers of the examinations carried out following the briefing session will be asked to submit additional documents.

(4) Invitations will be sent around Nov. 15. If the number of applications exceeds 30, a preliminary selection process based upon the submitted documents will be held. Those invited may participate free of charge.

(5) Results of the written examination will be posted at 10 am, Dec. 8 on a bulletin board at the Beijing Research Center and on the homepage of the Center.

(6) Results of the interview will be posted similarly around Dec. 20. Enrollment application forms will be sent out to all qualifiers.

(7) Qualifiers are to contact supervisors-to-be and carry out discussions during the period of Dec. 20 to Jan. 20. Those who pass are to receive recommendations from the staff member.

(8) Those who have passed and wish to enroll are to proceed according to the procedure given in the following section.

#### [4] Application for Enrollment

(1) Application period for enrollment: Jan. 20 to 31, 2007. Mail including all required documents must arrive by the deadline.

(2) Required documents (All documents are to be filled in English)

Documents	Remarks
Application Form	Use the official form provided by the Graduate School of Science, Hiroshima University.
Letter of Recommendation	Letter of recommendation from the supervisor-to-be.
Application Fee	¥30,000. Enclose a postal money order without filling the remittee's name. Only Japanese Yen is acceptable.

Note 1: No changes in application materials will be allowed after submission.

Note 2: Submitted documents and fees cannot be returned.

(3) Where the application documents should be sent to:

Student Affairs Office, Graduate School of Science, Hiroshima University  
1-3-1, Kagamiyama, Higashi-Hiroshima 739-8526 Japan

#### [5] Selection Procedure and Admission Notice

The submitted enrollment application documents will be reviewed.

Admission will be announced on Feb. 15, 2007. Notices will be sent to admittees.

#### [6] Enrollment Fees

Entrance Fee: ¥282,000

Tuition: ¥535,800 per year (or ¥267,900 per semester)

Notes

(1) The entrance fee is not refundable.

(2) Entrance and tuition fees are those as of April 2006 and are subject to change.

(3) The enrollment procedure must be completed during a specified period that will be notified later.

(4) After enrollment, students having financial difficulties can apply for exemption of the tuition fee.

However, there is no guarantee of an exemption.

#### [7] Japanese Training and Inquiries

(1) Admittees are to take Japanese language training courses at the Hiroshima University Beijing Research Center, located on the campus of Capital Normal University.

(2) Details on Japanese language training and procedures on coming to Japan will be given along with the admission notice.

For further information, please contact:

Student Affairs Office of the Graduate School of Science, Hiroshima University

1-3-1, Kagamiyama, Higashi-Hiroshima, 739-8526 JAPAN

Fax : +81-82-424-2464

E-mail: ri-gaku-daigakuin@office.hiroshima-u.ac.jp

Inquiries by phone are unacceptable.

Or look up the homepage of the Graduate School of Science: <http://www.sci.hiroshima-u.ac.jp/>

# Majors, Academic Staff, Research Subjects

## Graduate School of Science, Hiroshima University

As of June 1, 2006

### Department of Chemistry

Laboratory	Academic Staff	Research Subjects
Structural Physical Chemistry	EBATA, Takayuki (Professor) INOKUCHI, Yoshiya (Assoc. Prof.)	Studies on the structure and dynamics of weakly bound molecular complexes formed in supersonic jet by uses of nonlinear laser spectroscopy and ab initio molecular orbital calculations.
Solid State Chemistry	INOUE, Katsuya (Professor)	Synthesis, crystal structure, magnetic, optical, and conducting properties for molecule-based materials, studied by SQUID, magnetic resonance, MCD, and X-ray diffraction.
Coordination Chemistry	MIYOSHI, Katsuhiko (Professor) MIZUTA, Tsutomu (Assoc. Prof.)	Preparation, structures, and properties of transition metal complexes having higher-period elements as ligand atoms with particular reference to their peculiarities in valency.
Analytical Chemistry	FUJIWARA, Terufumi (Professor) TSUKAHARA, Satoshi (Assoc. Prof.)	Reverse micelle as a microreactor, chemical separation coupled to spectrometries, analysis of macromolecules with external fields, and microspectroscopic measurements of reactions at liquid-liquid interface.
Structural Organic Chemistry	FUKAZAWA, Yoshimasa (Professor)# HAINO, Takeharu (Assoc. Prof.)	Studies of molecular recognitions in supramolecular chemistry. Synthesis and conformational analysis of macrocyclic compound.
Photochemistry of Advanced Materials	SAITOW, Ken-ichi (Assoc. Prof.) *	Spectroscopic study on supercritical fluid. Advanced nanomaterials fabricated by laser ablation. High-density molecular storage in confined systems.
Physical Chemistry of Kinetics	YAMASAKI, Katsuyoshi (Professor) TABAYASHI, Kiyohiko (Assoc. Prof.)	Experiments with lasers and theoretical calculations on reaction dynamics of excited molecules and clusters have been performed. Dissociation mechanisms and dynamics following inner shell excitation have also been studied using synchrotron radiation source.
Quantum Chemistry	AIDA, Misako (Professor) ISHIBASHI, Taka-aki (Assoc. Prof.)	Chemical reactions in solution or specific recognition reactions in biological systems using quantum mechanical and molecular dynamics simulations. Structures and dynamics of molecules at surfaces and interfaces using linear and nonlinear vibrational spectroscopies.
Organic Reaction Chemistry	YAMAMOTO, Yohsuke (Professor) KAWACHI, Atsushi (Assoc. Prof.)	Synthesis and reaction mechanism of organic compounds of main group elements. Chemistry of hypervalent molecules.
Organic Chemistry of Natural Products	KOJIMA, Satoshi (Assoc. Prof.)	Structural determination and total synthesis of bioactive natural products. Synthetic methodology in organic chemistry. Mechanistic studies in bioorganic chemistry.
Chemistry of Aggregated Materials	OHNO, Keiichi (Professor)# OKADA, Kazumasa (Assoc. Prof.)	Experimental and theoretical studies on molecular recognition. Structure and reaction in isolated and condensed systems.
Radiation Reaction Chemistry	NAKASHIMA, Satoru (Assoc. Prof.) *	Chemistry related to radiation or studied by Mössbauer spectroscopy. Control of mixed-valence state and spin state by crystal construction.

\* Staff member of the Natural Science Center for Basic Research and Development

# Staff who is expected to retire or to leave in March 2007