

JUNBA2009

Welcome to CRC

Combine the knowledge, and something new will happen!

Collaborative Research Center

Hiroshima University



Hiroshima University Research Seeds Database "Himawari"

JUNBA2009

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Where is Hiroshima?



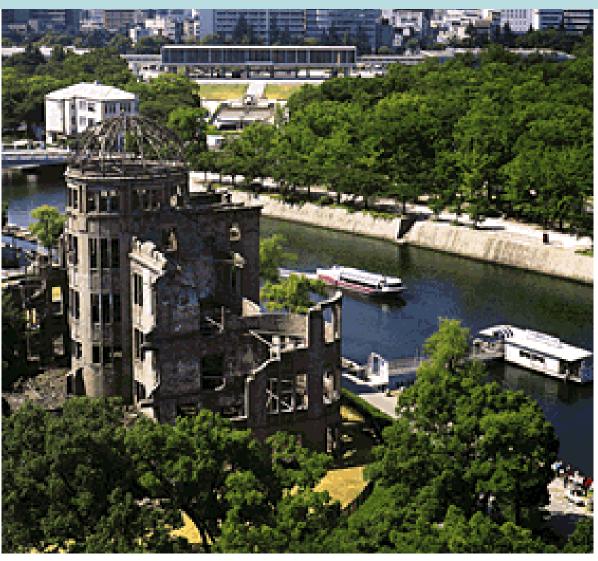


Flower Festival in May (Hiroshima City Center)



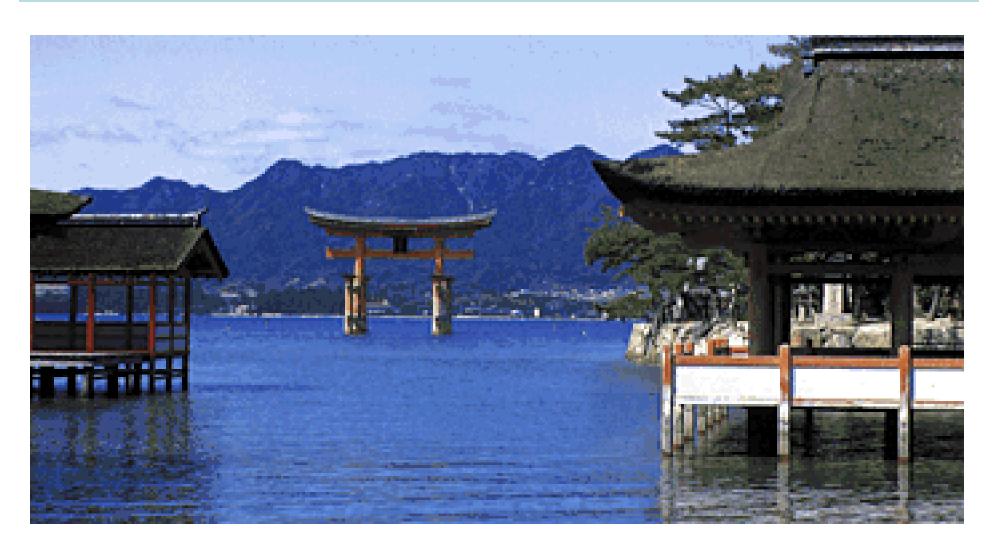


Peace Memorial Park & A-Bomb Dome





Miyajima Island





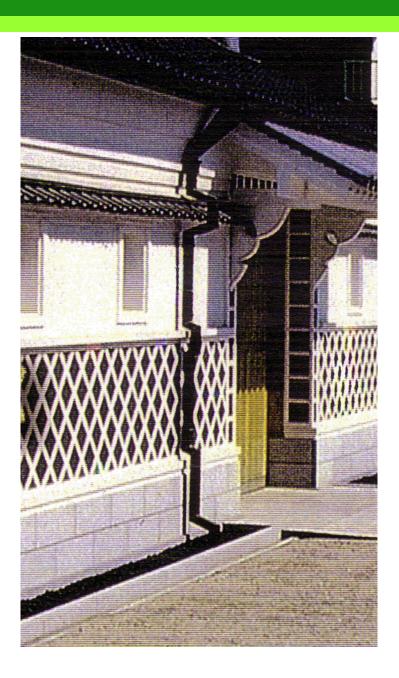
In-no-shima Bridge





Higashi-Hiroshima city, where HU is located, is very famous for *SAKE*.







Profile of Hiroshima University (1)



Land 3,176,000m² Buildings 604,000m²



One of the largest universities in Japan.

Also reputed as the top university
 in Chu-shikoku region concerning a variety of aspects.









International Industry-Academia Collaboration Division Collaboratuive Research Center



Profile of Hiroshima University (2)

- Formally founded in 1929 as a university (Former body was originally founded in 1874)
- 11 Faculties & 12 Graduate Schools (Science, Engineering, Bio-tech, Education, Social Sciences, Medicine etc.)
- 1 Research Institutes & 20 Research Centers
 (Higher Education, Collaborative Research, A-bomb Effect Research, etc.)

Students: Undergraduate: 11,145

Master course: 2,509

Doctor course: 1,749

About 15,000

students

(Foreign student 755 from 57countries)

(as of May 1st, 2007)

Staffs: Academic position 1,832

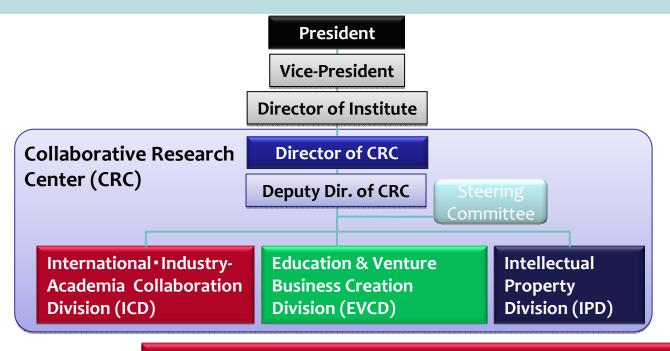
Office & technicians 1,440

(total 3,281)

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Collaborative Research Center









- ➤ Industry-academia collaboration
- ➤ International collaborations & technology transfer
- ➤ Education on Management of Technology (MOT)
- ➤ Creation of Venture Businesses & Support
- Research projects to create seeds for VB
- ➤ Management of intellectual properties
- >Education and research on intellectual properties



International Industry-Academia Collaboration Division's Roles

Promotion of:

- Collaborative researches with industries
- Research projects funded by government and foundations
- International collaborations & technology transfer



HU Liaison Fair

Professors and young researchers of HU show and explain about their Original works to industry/business people at the fair which would attract company/engineers' interests.



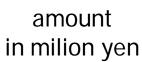
Presentation at the fair.

Tokyo10Beijing1Hiroshima7total18

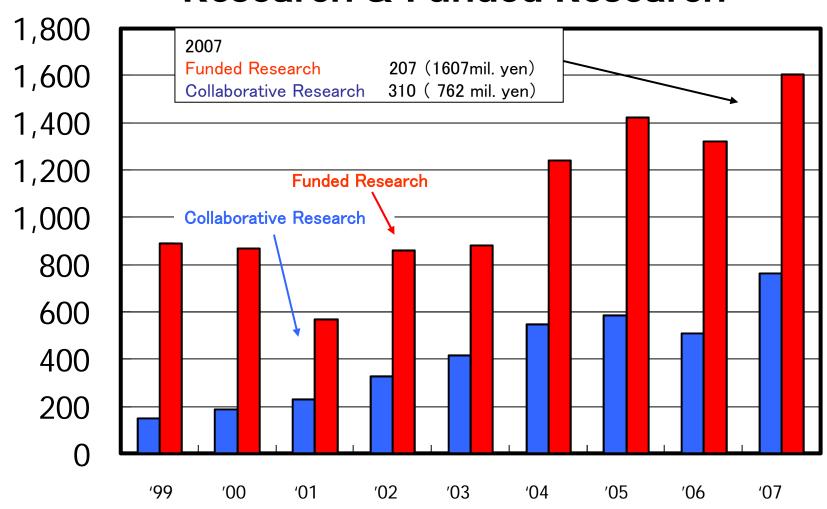


Banquet after the fair.





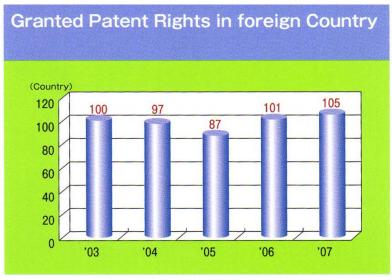
Yearly Progress of HU Collaborative Research & Funded Research

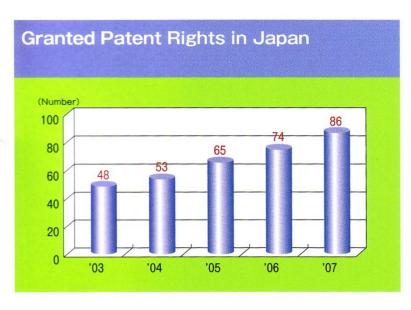


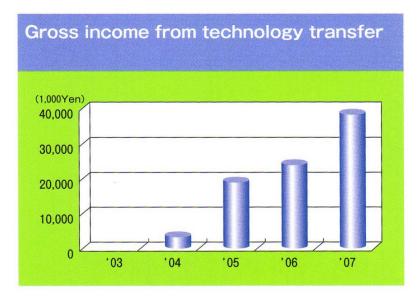


Technology Transfer – Actual Results











Profile of HU's International Collaborative Research Service

- HU initiated an international collaborative research service, that is the only university among all the universities in Chugoku-shikoku region.
- Since HU has a strategy to strengthen a network among universities in the region in terms of collaboration with industry and HU also tries to reach the mutual goal with local governments in regional development, HU's international collaborative research service may get coherent with the strategy of local government s and other universities in the region and may have a synergy effect in the quality/quantity of research seeds in the future.





Introduction of Himawari

 Himawari is the Japanese name of "sunflower".

Sunflower glows fast toward the sun and bears flowers which are full up with seeds for the future. Therefore, the database is named "Himawari" so that the seeds created by researchers in Hiroshima University may grow like Himawari.

 We call the seeds for collaboration with industry "Research seeds", not "Technology seeds" as HU CRC deals with not only basic/applied science, but also social science, and so on. It is because HU is a comprehensive university.



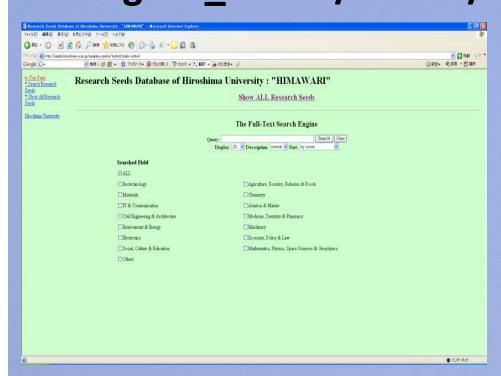
Profile of Himawari

- It covers a variety of research fields.
- The database is available in both English & Japanese.
- Research seeds are described with common terms as much as possible for easy understanding of the seeds.
- Making inquiries is possible through the web.



Research Seeds Database

http://seeds.hiroshima-u.ac.jp/
sangaku_renkei/techrd/index-e.html



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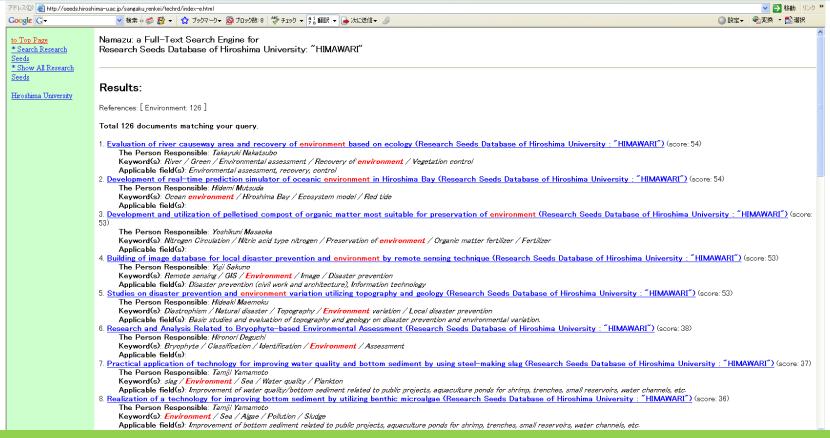
Research Seeds — maw/ar Database — on the Web

- Approximately 390 research themes are on the list.
- The themes are categorized into 14 types of fields.
 - (1) Biotechnology
 - (2) Agriculture, Forestry, Fisheries & Foods
 - (3) Material
 - (4) Chemistry
 - (5) IT & Communication
 - (6) Aviation & Marine
 - (7) Civil Engineering & Architecture
 - (8) Medicine, Dentistry & Pharmacy
 - (9) Environment & Energy
 - (10) Machinery
 - (11) Electronics
 - (12) Economy, Policy & Law
 - (13) Mathematics, Physics, Space Sciences & Geophysics
 - (14) Social, Culture & Education

(as of 2008)



Research Seeds concerning "Environment" listed in Himawari



126 seeds were hit by search with the key word "environment". 23



Conclusion

- 1. In order to initiate HU's International Collaborative Research Service, HU CRC developed an English version of Himawari as a foundamental tool.
- 2. Himawari can provide you with research seeds from a variety of aspects, even for "environment", ie; not only from Technology/engineering aspects but also from other important aspects, such as international cooperation & development.
- 3. It is expected that Himawari will take a more crucial role in the future as HU strengthens its network more in Chugoku-shikoku region.



We are looking for foreign partners who wish to do collaborative researches with us!

Thank you!