Waseda University
Digital Campus
Consortium

Toward a New Academic Research Initiative in the 21st Century

Ver. of June 1st, 2004
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Message from the Chairman

[Digital Campus Consortium]

Naoji TAKAGI
Executive Director, Waseda University
Chairman, DCC Steering Committee

At the start of the 21st century, globalization is intensifying in every field. To survive and thrive, universities must adjust, like everyone else. We have chosen the path of opening up education to a broader constituency. To realize that goal, information-gathering and information-analysis are essential: accordingly, we have implemented the Waseda University 9-Year Information Program (1997-2005), starting with the creation of an on-campus database.

In 1999, thanks to the cooperation of more than 20 corporations, the Waseda University Digital Campus Consortium (DCC) was launched. I am happy to report that our first programs have met with great success. These programs include the following:

- Lectures over the network (On-demand Lectures)
- Joint Seminars over the network (CCDL, Cross-Cultural Distance Learning)
- Language Learning over the network (Tutorial English)
- Online academic databases
- Delivery of distance learning programs for mature students
- Establishment of joint ventures between Waseda University and a number of corporations

These early successes in Phase One have confirmed the validity of the DCC as consortium bringing together the academic and business communities. In Phase Two, we have set our sites on increasing our global appeal, so as to bring in even more overseas participants.

Under Phase Two, Waseda University aims to form a mutual consortium among universities, to be called the Cyber University Consortium, or CUC. It will begin by involving all overseas institutes, research projects, students, and scholars that have subscribed to CCDL guidelines. And our goal will be to address the following topics:

- Training of leaders capable of performing globally
- Globalization of education and research
- Establishment of a “Corporate University” model by enhancing partnerships with corporations

I would like to express our gratitude to you for your understanding and your invaluable cooperation.
The Digital Campus Consortium is a consortium of corporate organizations with the common goal of realizing a new university model based on an information network in the 21st century. Established in 1999, DCC has promoted in its initial stage (1999–2001) the achievement of an education and research environment open to the public.

The second stage (DCC Phase Two), to be implemented over three years from the academic year 2002–04, will promote various projects to realize a 21st-century university model truly open to the public and support the establishment of the Cyber University Consortium. The CUC will encourage inter-university exchange of academic study and research, for both undergraduate and graduate students and faculty of institutions in Asia and the Pacific region.
Achievements of DCC Phase One

Between 1999 and 2002, the first stage of the DCC produced many concrete results by integrating the digitalization and informatization techniques of private companies and the intellectual resources of universities, with the aim of creating a timeless and universal Open Campus.

<table>
<thead>
<tr>
<th>Actualization of On-Demand Lectures</th>
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<tbody>
<tr>
<td>Developing on-demand university lectures, available regardless of time or location: (5 subjects in academic year 2001; 17 subjects in academic year 2002) Student registration according to individual lifestyle.</td>
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<table>
<thead>
<tr>
<th>Development of Tutorial English Program</th>
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<tr>
<td>First developed for conducting a joint seminar of intercultural exchange with overseas institutions under agreement, an estimated number of 2800 students have enrolled with confirmed improvement of language skills, with higher scores on the SST (English Speaking Skill Test).</td>
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<tr>
<th>Online Disclosure of Academic Databases</th>
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<tbody>
<tr>
<td>Putting academic documents into digital contents</td>
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<tr>
<td>Making a database of bibliographic information</td>
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<tr>
<td>Publishing a DVD, Kyogen de gozaru (“This is Kyogen”), Kadokawa Shoten</td>
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<thead>
<tr>
<th>Actualization of CCDL Joint Seminars in Intercultural Exchange with Overseas Institutions under Agreement</th>
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<tbody>
<tr>
<td>Joint Seminar with 30 universities in 16 countries in a foreign language</td>
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<tr>
<td>Conducting an international communication program based on integrative real-time communication utilizing the video-conferencing and “chat” systems</td>
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<tr>
<th>Online Chatting:</th>
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<tr>
<td>Real-time “chatting” between students</td>
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<tr>
<th>Cyber Seminars</th>
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<td>Discussions of specialized fields</td>
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<table>
<thead>
<tr>
<th>Cyber Lectures</th>
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<tr>
<td>Distance Learning lectures on more specialized subjects</td>
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<table>
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<tr>
<th>Transmission of Distance Learning Programs for External Students</th>
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<tbody>
<tr>
<td>34 courses are broadcasted by satellite transmissions throughout Japan.</td>
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<tr>
<th>Joint Venture Establishment with Private Companies</th>
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<tbody>
<tr>
<td>Two firms established integrating corporate techniques and management skills plus academic intellectual property and know-how:</td>
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<tr>
<td>° Waseda University International Co., Ltd.</td>
</tr>
<tr>
<td>° Waseda University Learning Square Corp.</td>
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</table>

<table>
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<tr>
<th>Publishing Support</th>
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<tbody>
<tr>
<td>° “Waseda Daigaku Digital Kakumei” (Japanese only) (2000, ALC PRESS, Inc.)</td>
</tr>
<tr>
<td>° “Waseda Daigaku Shin-Seiki heno Chousen” (Japanese only) (2001, Toyo Keizai Inc.)</td>
</tr>
</tbody>
</table>
Keeping the standards of DCC Phase One’s achievements, DCC Phase Two is working on three main projects in order to realize a 21st-century university model.

- Experimental Course for the CUC Establishment
- CCDL Program
- English Communication Program
- Chinese Communication Program
- Russian/Japanese Communication Program
- Japanese Language Education Program
- Corporate Member Programs

**Distance Learning Programs Projects toward CUC**

- Planning New Project
- Selecting the Network and System to Accommodate the CUC
- CUC Plan Management and Credit Transfer System
- On-demand Lecture System

**Member Activities and Public Relations**

- Exchange Opportunities among Members
- Public Relations Activities

**CUC Establishment Projects**
From 2004 we shall be working toward founding a domestic basis for CUC establishment by institutionalizing Japanese universities, enhancing the pedagogical contents of applied skills programs for certification, and placing first priority in supporting the activities of the Logistics Forum for On-demand Courses, Organization for Certification of Applied Skills (NPO), and the Waseda University OSS Research Institute for mutual collaboration, in order to assume a leading role in the field of OSS, an urgent issue for Asian countries. We are currently laying the actual foundations for the above enterprise over a 2-year period.
<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>June 3</td>
<td>DCC 2 Establishment Committee assembly meeting</td>
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<tr>
<td></td>
<td>Dec.</td>
<td>Academic Writing Program: Making the lecture contents</td>
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<td></td>
<td>Dec. 20</td>
<td>Open International Symposium: “Toward Global Co-Creation of the Intellect in the Asia-Pacific Region”</td>
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<tr>
<td>2003</td>
<td>Jan.</td>
<td>Visits to 5 universities in 5 countries to explain the DCC 2 project and invite participation in its programs</td>
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<tr>
<td>Jan.</td>
<td>“IT Trends in Japan”: Making the lecture contents</td>
<td></td>
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<tr>
<td>Mar. – April</td>
<td>Joint Experimental Course, “Coexistence in Asia”: Making the lecture contents</td>
<td></td>
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<tr>
<td>April 17</td>
<td>Course operation (Phase 1)</td>
<td></td>
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<tr>
<td>June – July</td>
<td>Japanese Language Education Program: Making the lecture contents</td>
<td></td>
</tr>
<tr>
<td>Aug.</td>
<td>&quot;World Englishes and Miscommunications&quot;: Started making the lecture contents</td>
<td></td>
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<tr>
<td>Sep. 17</td>
<td>Joint Experimental Course, “Coexistence in Asia”:</td>
<td></td>
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<td></td>
<td>- Nov. 26</td>
<td>Course operation (Phase 2)</td>
</tr>
<tr>
<td>Nov. – Jan.</td>
<td>“IT Trends in Japan”: Experimental implementation</td>
<td></td>
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<tr>
<td>Dec. 20</td>
<td>Supported the founding of the Organization for Certification of Applied Skills (NPO)</td>
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<td></td>
<td>Applied to, certified by the Cabinet Office, Government of Japan</td>
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</table>
Experimental Course for CUC Establishment

We will conduct an experimental course for the global implementation of making university study and research open to the public, achieved in DCC Phase One, toward setting up a Cyber University Consortium to realize inter-university exchange in teaching, research, and human resources in the Asia-Pacific region. Our goals are joint class sessions with overseas institutions via the Internet and transfer of academic credits.

Systems
- On-demand Internet Class System
- Videoconferencing System (such as ViewStation)

Achievements
- Joint Experimental Course, “Coexistence in Asia”
  - December 2002 to January 2003
  Visited five universities in the Asia-Pacific region, namely Korea University (Korea), National University of Singapore (Singapore), Thammasat University (Thailand), and Peking University (China), to encourage participation and proposals for implementation of the joint experimental course; agreed upon its implementation
  - March to April 2003
  Recorded on-demand digital contents at a studio on the Waseda University campus with faculty members from Korea University, National University of Singapore and Thammasat University*
  *Peking University declined participation in the experimental course due to the SARS consequences.
  - April to July (Phase 1), Sep. to Nov. (Phase 2) 2003
  Implemented the joint experimental course, “Coexistence in Asia”, an omnibus course involving four faculty members from four universities, with 63 students in the Spring Semester and 61 in the Fall Semester; conducted efforts to maintain motivation for course enrollment and create a community of participating students, such as quizzes and promoting submission to the Bulletin Board System for student communication, in the Fall Semester.
  The course included live classes, with course summaries and student presentations, via videoconferencing system for the first and last sessions.

Course structure (Phase 1)

- Week 1: Live Session (Introduction)
- Week 2: Waseda Univ. On-Demand Lecture 1
- Week 3: Waseda Univ. On-Demand Lecture 2
- Week 4: Korea Univ. On-Demand Lecture 1
- Week 7: Thammasat Univ. On-Demand Lecture 2
- Final week: Live Session (Summary)

“Coexistence in Asia”
On-demand lecture contents image

Live Session scene
Distance Learning course Projects toward CUC

Experimental Course for CUC Establishment

- List of Lecturers and Lectures, Joint Experimental Course: “Coexistence in Asia”

Prof. Toshihiko Kinoshita, Waseda University
Coexistence in Asia 1 & II

Prof. Mannsoo Shin (Korea University)
Coexistence in Asia 1 & II

Asst. Prof. Takashi Terada (National University of Singapore)
Coexistence in Asia 1 & II

Assoc. Prof. Bhanupong Nidhiprabha (Thammasat University)
Coexistence in Asia 1 & II

From the Student Questionnaire:

Q1. Are you satisfied with sharing the course with other participating students at overseas universities?

- 60% definitely satisfied
- 29% generally satisfied
- 2% neutral
- 0% not satisfied
- 5% not satisfied at all
- 0% no answer

Q2. Do you think you want to participate in this kind of collaborative course again?

- 80% Yes
- 13% no idea
- 7% No
- 0% no answer

Q3. Give your frank comments:

- “I really liked this course as I could attend anywhere at any time I wanted. It was a good lesson for me to study and discuss with other participating students from overseas universities. Now I’d like to learn about Asian studies with this course as turning point.”
- “When I first started taking this course, I never realized how we are trying to do new things, and how novel this course was going to be. But it was really exciting to listen to the lectures from four different professors from four different countries.”
December 20, 2003

We held an open symposium titled, “Toward Global Co-Creation of the Intellect in the Asia-Pacific Region.” Faculty and students from each participating university reported on the significance of an international joint program and their expectations for its future development, based on their experiences participating in the experimental course. President Katsuhiko Shirai of Waseda University delivered a speech at the symposium, which turned out to be a great success with approximately 120 participants.

- Presentations by the representative students

Students from respective universities made presentations on the suggestions summarized from the group work done on the previous day of the symposium.

< Theme A: “What’s ‘Coexistence in Asia’ for students?” >

“Through this experimental course program, we were able to achieve mutual understanding as we worked on the same activities together, crossing physical national boundaries. We believe there will be increased collaboration among Asian institutions by expanding this kind of internet-based distance learning.”

< Theme B: “Our suggestions on a new education and research style using a network” >

“We came up with various ideas from the student perspective, such as establishing an online chat-room for increased communication and conducting more focused online courses. We very much look forward to the development of joint distance learning programs with enhanced content, reflecting our suggestions.”

- Panel Discussion by the participating professors

A panel discussion was held with participating professors, with Prof. Kinoshita of Waseda University as the moderator, on “Coexistence in Asia” from the economic development and academic research perspectives.

Assoc. Prof. Bhanupong Nidhiprabha, Thammasat University:
“I hope globalization enhances mutual understanding to achieve a peaceful ‘Coexistence in Asia’.”

Prof. Mansoo Shin, Korea University:
“It is very important for students to study multiple viewpoints from professors of different countries and cultures.”

Asst. Prof. Takashi Terada, National University of Singapore:
“It is necessary to develop this sort of experimental course for creating a community of Asian countries.”

Prof. Toshihiko Kinoshita, Waseda University:
“I also learned a lot through this program and hope to improve on its course management from now on.”
Experimental Course for CUC Establishment

- Summary
Prof. Michiko Nakano, Director of Distance Learning Center, Waseda University explained the advantages of network-based learning in university education and DCC-supported activities, reporting on the latest achievements based on her own experiences. The symposium closed with a discussion on the future potentials of establishing a Cyber University Consortium.

From the Questionnaire to Symposium Participants:
Corporate employee: “I believe the opportunity to have live discussions with professors and students around the world will greatly contribute to the education of future generations and look forward to the future development of the program.”

Student: “As a university student, I was stimulated very much and amazed that we could acquire both English fluency and self-expression skills through participating in the experimental program. I wish ‘co-existence in Asia’ could be achieved with many other countries.”

February 2004
We made a video on Co-Existence in Asia, including interviews to the participating faculty and students, clips from the open symposium, activities in 2003, and a summary on the CUC project.

Future Perspectives
- We look forward to implement the Co-Existence in Asia program at each of the participating universities as regular courses. (Waseda University is adopting it as a regular course for academic year 2004.)
- We hope to add to/complete the lecture contents for the World Englishes and Miscommunications program and implement it experimentally.
- We will make proposals and conduct PR activities for increasing the number of partner institutions for the CUC project.
Waseda University has been conducting network-based intercultural exchange seminars with overseas universities via an interactive computer network system (CCDL: Cross Cultural Distance Learning). More than 30 universities from approximately 20 countries participated in the academic year 2002~03. The real-time joint seminars making use of online chatting and Polycom not only helped improve the students’ foreign language proficiency but also contributed to increasing their intrinsic motivation to learn.

In DCC Phase Two, we will build on these achievements and promote participation in intercultural exchange activities in daily life.

◆ **Systems**

- CUseeMe
- ViewStation, ViaVideo (video-conference systems)
- CCDL exclusive site
  - Text Chatting
  - BBS
  - Chatting conference room reservations

◆ **Achievement**

In 2003, we conducted exchange programs with 30 universities and institutions, mainly in the Asia-Pacific region, Europe, and North America.

- Peking University (China)
- Capital Normal University (China)
- Fudan University (China)
- Zhejing University (China)
- Hong Kong Baptist University (China)
- Taiwan Normal University (Taiwan)
- Korea University (Korea)
- Kangwon National University (Korea)
- Sung Kyun Kwan University (Korea)
- De La Salle University (Philippines)
- University of Malaya (Malaysia)
- National University of Singapore (Singapore)
- Nottingham Trent University (UK)
- University of Lyon (France)
- University of Kiel (Germany)
- University of Oregon (USA)
- University of Colorado (USA)
- University of Utah (USA)
- Portland State University (USA)
- University of Washington (USA)
- University of Adelaide (Australia)
- APRU General Assembly
- JACET

and so on
Distance Learning course Projects toward CUC

CCDL Programs

From the Student Questionnaire:

Q1. How did you benefit from participating in CCDL?  
(Multiple answers accepted, % applies to total effective answers)

- Became friends with overseas students: 76%
- Could deepen intercultural understanding: 49%
- Improved language skills: 13%
- Developed more fluency in a foreign language: 33%
- Increased computer literacy: 30%

Q2. Are you satisfied having participated in CCDL

- Satisfied: 43%
- Neutral: 19%
- Somewhat dissatisfied: 5%
- Very satisfied: 28%
- Dissatisfied: 1%
- No answer: 4%

Q3. Would you like to participate in CCDL programs again?

- Yes, definitely: 41%
- Maybe: 38%
- Maybe not: 13%
- No: 3%
- No answer: 5%

Future Perspectives

As an ongoing process, we will devise new types of CCDL such as the “On-Demand-Based CCDL” (a combination of on-demand lectures and CCDL), expand our global exchange capacity, and consider efficient management and operation of such endeavors.

CCDL Partner Institutions

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06/04/2004
Based on the results achieved through the Tutorial English Program in DCC Phase One, we will offer an English language program for acquiring the basic communication skills for nurturing global citizens.

**English Tutorial Program with Tutors from Overseas Universities**
For advanced-level students, we will offer a distance-learning English tutorial program with a small number of students per class, taught by tutors at the University of Adelaide (Australia) and Portland State University (USA).

**Systems**
- ViewStation, ViaVideo
  (videoconferencing systems)

**Achievements**
- October through December 2002
  Experimental Programs:
  1 tutor to 4 students
  + University of Adelaide
    2 courses, 14 lessons
  + Portland State University
    1 course, 3 lessons
- Spring and Fall Semesters, academic year 2003
  Experimental Programs:
  1 class in the Spring; 2 classes in the Fall
  + University of Adelaide
    1 tutor to 4 students
  + Portland State University
    1 tutor to 4/6 students
  Discussion- and debate-centered lessons

**Future Perspectives**
Similar experimental programs are planned for the academic year 2004, aiming for their recognition as regular classes, with continuous improvements on their pedagogical outcome and management services.
# Distance Learning course Projects toward CUC

## English Communication Program

### Tutorial English Program by WUI Tutors

We will offer a distance Tutorial English Program, taught by tutors of the Waseda University International Co., Ltd. (WUI).

#### System

- Web Speaking
  - (Web-based communication system)

#### Achievements

- April 2002:
  - Development of a system prototype
- Spring Semester 2002:
  - Trial course for students
  - Approx. 90 students registered
- Fall Semester 2002:
  - Experimental program: 2 courses, 4 lessons, respectively, via the BizMate system
  - (PC videoconferencing system)
- Spring and Fall Semesters 2003:
  - Experimental program: 6 weeks, 12 lessons

#### Future Perspectives

We will continue to implement similar experimental programs for further efficiency.

### Academic Writing Program by Oregon State University

On-demand lectures for learning the skills for writing academic papers in English.

#### System

- On-demand Internet Class System

#### Achievements

- December 2002:
  - Lecturer invited from Oregon State University to design the on-demand digital contents
- May~July 2003, October 2003~January 2004:
  - Experimental classes: 30 students each

#### Future Perspectives

Similar experimental programs are planned for the academic year 2004, aiming for their recognition as regular classes, with continuous improvements on their pedagogical outcome and management services.
Distance Learning course Projects toward CUC

Chinese Communication Program

Based on the results achieved through the Tutorial English Program in DCC Phase One, we will offer a Chinese language course for acquiring the basic communication skills for nurturing global citizens.

Students will attend a language study course involving one tutor per several learners, led by tutors from universities in China under agreement with Waseda University. Real-time tutorials where students can directly interact with the overseas tutor on the TV monitor screen started in collaboration with National Taiwan Normal University in the academic year 2002. Similar experimental Chinese tutorials have been conducted with Peking University from the academic year 2003.

◆ Systems
ViewStation, ViaVideo
(video-conferencing systems)

◆ Achievements

* September 2002 through January 2003
  Joint experimental tutorials with National Taiwan Normal University, beginner to intermediate levels, approximate number of registered students: 100

* Spring and Fall Semesters 2003
  Joint experimental tutorials with Taiwan Normal University and Peking University, with 88 students participating in distance-learning classes via videoconferencing system and a combination of distance learning and face-to-face instructions

From the Student Questionnaire:
Q1. Did this course help build up your confidence in speaking Chinese?

- To some degree, no (4%)
- No difference (12%)
- Yes (14%)
- To some degree, yes (70%)

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Distance Learning course Projects toward CUC

Chinese Communication Program

Q2. Do you feel confident that the language skills you acquired in this course could be applied practically?

- Don't know (15%)
- No (3%)
- Not sure (19%)
- To some degree, yes (48%)
- Yes (15%)

Q3. Do you intend to continue taking this course next year?

- Don't know (4%)
- Maybe (32%)
- Definitely (64%)

Our course participants also showed an increased proficiency on an external language test (Test of Communicative Chinese: TECC).

TECC score differences after Chinese tutorials (comparing before-course/June 2003 to after-course/November 2003)

Future Perspectives

Similar experimental programs are planned for the academic year 2004, aiming for their recognition as regular classes, with continuous improvements on their pedagogical outcome and management services.
Distance Learning course Projects toward CUC

Russian/Japanese Communication Program

We will offer Russian and Japanese speaking lessons in collaboration with Far Eastern National University (Russia), involving Russian students from FENU and Japanese students from Waseda University who will teach each other’s native language to not only improve basic foreign language communication skills but also provide practical language use opportunities for students intending to become language teachers.

◆ System
BizMate (PC teleconferencing system)

◆ Achievements

* October~December 2002
* May~July, October~December 2003

Experimental classes with Far Eastern National University, Russia Tutorials in Russian and Japanese speaking skills: 10 students for each lesson / Total participation: 60 students

From the Student Questionnaire:

Q1. Were you satisfied with the lessons?
- Not satisfied (3%)
- Somewhat satisfied (38%)
- Neutral (8%)
- Satisfied (51%)

Q2. How was the acoustic quality?
- Bad (37%)
- Good (16%)
- OK (47%)

◆ Future Perspectives

We are planning to implement a similar experimental program in collaboration with Far Eastern National University from May 2004, hoping to improve on their pedagogical outcome and management services.
Waseda University has emphasized the university’s prominent status as a leading institution in the Asia-Pacific region as well as increasing the number of international students of high academic standards. We are planning to triple the current number of international students (1,368, as of May 2002) over a five-year period, by 2007. Japanese language education programs must be further developed for overseas students wishing to study in Japan. To meet these demands for Japanese language education, Waseda will be implementing distance-learning programs in collaboration with domestic and overseas institutions.

◆ System

◆ On-demand Internet Class System

◆ Achievements

Joint program with the Graduate School of Japanese Applied Linguistics (GSJAL), Waseda University

◆ Fall Semester 2003

Online Japanese Language Education Program for graduate students of GSJAL, implemented November~December 2003, with 29 (2 from Taiwan) students

From the Student Questionnaire:

Q1. What was your impression of the course as a whole?

Neutral/somewhat dissatisfied/ Not satisfied (0% each)

Satisfactory (44%)

Very satisfactory (56%)

Q2. Please give us your comments for the program.

"Not only could I repeatedly view and take part in the interesting lectures but also I could communicate and exchange opinions with fellow students over the BBS, which was very stimulating for me."

"I think some parts were better than live classes."

◆ Future Perspectives

Based on the feedback from the course program implemented in Fall 2003, we will work toward developing a Japanese language program for an extensive audience including students overseas intending to study in Japan. We shall also consider the potentials for future courses combined with network-type tutorial lessons via video-conferencing system.
In order to investigate the possibilities for joint programs with private firms, we will develop and offer on-demand lectures with corporate guest speakers.

◆ System
   ∗ On-demand Internet Class System

◆ Achievements
   We have developed a lecture series, “IT Trends in Japan”, with a total of 12 lectures by guest speakers from six leading IT companies (DCC members) in Japan. This was implemented as an experimental program in Fall Semester 2003, with participation as follows.
   ∗ Program advisor: Yoichi Muraoka, Vice-President, Professor (School of Science and Engineering), Waseda University Japanese/English bilingual 49 students (44 from Waseda University, including 2 international students; 5 from the National University of Singapore)

   “IT Trends in Japan” – Syllabus

<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>1</td>
<td>Web Service</td>
<td>(IBM Japan)</td>
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<tr>
<td>2</td>
<td>Searching and Data Mining – Mathematics In Action</td>
<td>(IBM Japan)</td>
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<td>3</td>
<td>Java(TM) Technology Overview</td>
<td>(Sun Microsystems)</td>
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<td>Project JXTA</td>
<td>(Sun Microsystems)</td>
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<td>5</td>
<td>Entertainment Robot “AIBO” – Technologies and Business of 4 legged Robots – SONY BROADBAND SOLUTION</td>
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<td>6</td>
<td>A Small Biped Entertainment Robot “SDR” – SDR’s Motion Control and Communication Control Technologies – SONY BROADBAND SOLUTION</td>
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<td>Internet Technology for Multimedia &amp; Mobile Communication</td>
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<td>Inside of Large Scale Software Development Projects</td>
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</table>

◆ Future Perspectives
   We distributed a Student Questionnaire to the participants of the Fall 2003 course program, to evaluate the lecture contents presented by the corporate guest speakers and their pedagogical effects. Based on the results of the questionnaire, we are planning to create another “IT Trends in Japan” lecture series with robotics as its main theme (Program advisor: Prof. Shuji Hashimoto, School of Science and Engineering, Waseda University). We will also start considering the standardization of digital contents.
DCC will provide all necessary assistance toward establishing a CUC, from planning new projects to management affairs.

◆ Selecting the Network and System to Accommodate the CUC

We will standardize the systems most appropriate to distance education, such as the On-demand Internet Class System geared to the CUC, based on the systems currently utilized by Waseda University. Along this line, we will also aim for achieving the CUC standards for networking and LMS (Learning Management System), comparing them with their contemporary counterparts in Japan and abroad.

At the same time, we are aiming for CUC standardization through considering network structures and the Learning Management System (LMS), according to the standards in Japan and respective overseas countries.

◆ Discussing the CUC Management and Credit Transferability

In view of CUC establishment, the DCC will consider management policies and administrative support as well as develop ideas for planning.

We will attempt to overcome international differences, in not only language and culture but also the academic calendar and communication infrastructure, to examine and evaluate applied skills, techniques, and pedagogical effects through the implementation of experimental classes.

Through these efforts, we hope to contribute to the establishment of the CUC, a consortium of universities around the world allowing the transfer of credits and promoting mutually beneficial exchange in teaching, research, and human resources between institutions.
On-demand lectures and class sessions are conducted on the PC via the Internet and utilize on-demand model multimedia contents. Waseda University first experimented with this lecture system in the academic year 2000–01 and adopted it as a formal teaching method in the following year 2001–02.

The students access to the On-demand Internet Class System to attend the lecture or class and can hold Q and A sessions and discussions with their professors/teachers and fellow students on the BBS (Bulletin Board System). Other electronic features include functions to submit papers/reports and assignments as well as take tests/quizzes online. The main advantages of on-demand lectures are 1) making available innovative, problem-solving classes eliciting the students’ spontaneous motivation; 2) being able to attend lectures or participate in class sessions anytime, anywhere; 3) making it possible for students to repeatedly attend or participate in lectures or classes according to individual comprehension.

In DCC Phase One, we combined the systems of on-demand authoring tools with LMS and BBS to develop a "seamless" support system for course layout, recording, and actualization.

We will continue maintaining the On-Demand Lecture System in order to distribute it to the public and maximize its potentials for various learning methods and situations. At the same time, we will work on improving the On-Demand Lecture System to accommodate sessions in English and other (chiefly Asian) languages.
The DCC Secretariat regularly holds various events to provide communication and information exchange opportunities between corporate DCC members and Waseda University. In the academic year 2002, we organized a Breakfast Salon with the purpose of introducing to the public the research results by Waseda University faculty, the event included a buffet style intermission for free talking and received journalistic attention as “an effective example of academic–corporate collaboration”. In the academic year 2003, we hosted an event called an Evening Salon, which involved a lecture series by Waseda faculty members, presentations by representatives of corporate members, and buffet receptions, intended to be held nine times a year. For the academic year 2004, we are planning a similar event combining lectures by our professors and receptions for exchanging ideas.

### DCC Evening Salon: List of Lecturers, 2003–2004

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecturer (Waseda University faculty)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (May 30, 2003)</td>
<td>Prof. Takao SUAMI, School of Law, Director of Institute of Clinical Legal Education, Waseda University</td>
</tr>
<tr>
<td>2 (June 25, 2003)</td>
<td>Prof. Mariko HASEGAWA, School of Political Science and Economics, Waseda University</td>
</tr>
<tr>
<td>3 (July 24, 2003)</td>
<td>Prof. YANG, Da, School of Letters, Arts and Sciences, Director of Institute for the Comprehensive Study of Education in Chinese, Waseda University</td>
</tr>
<tr>
<td>4 (Aug. 27, 2003)</td>
<td>Prof. Shujiro URATA, School of Social Science, Director of Institute for Strategic Research into Singaporean Information Technology, Waseda University</td>
</tr>
<tr>
<td>5 (Sept. 26, 2003)</td>
<td>Prof. Shuji HASHIMOTO, School of Science and Engineering, Director of Humanoid Robotics Institute, Waseda University</td>
</tr>
<tr>
<td>6 (Oct. 24, 2003)</td>
<td>Prof. Hiroshi ITO, School of Education, Director of the Tsubouchi Memorial Theatre Museum, Waseda University</td>
</tr>
<tr>
<td>7 (Nov. 21, 2003)</td>
<td>Prof. Kazuhiko KIMURA, School of Sport Sciences, Researcher of Research Institute for Sports Business, Waseda University</td>
</tr>
<tr>
<td>8 (Jan. 30, 2004)</td>
<td>Prof. Tatsuyuki NEGORO, School of Commerce, Director of Research Institute of Information Technology and Management, Waseda University</td>
</tr>
<tr>
<td>9 (March 2, 2004)</td>
<td>Prof. Kazuko MORI, School of Political Science and Economics, Leader of COE–CAS: Center of Excellence – Creation of New Contemporary Asian Studies, Waseda University</td>
</tr>
</tbody>
</table>
Member Activities and Public Relations

Public Relations Activities

The DCC Administrative Office conducts various public relations activities to inform the public extensively of the DCC programs and other projects by Waseda University.

◆ Publication Support

“Waseda Daigaku Sekai eno Hishou”
(“The Road to World Class University”, Japanese only)
Written and edited by Katsuhiko Shirai, Dr. Eng., President, Waseda University

This book introduces diverse projects by Waseda University, presently undergoing reform geared toward “active international-oriented intellectuals” under the key themes: international, liberal arts, and professional.

“Dakara Waseda wa Toku Nandesu”
(“That’s Why Waseda University Is Worth It”, Japanese only)
Special attachment: Music Video (CD-ROM version)

This is a book of information mainly targeting prospective Waseda University students for the academic year 2003, full of data on lectures of special interest, athletics, and other topics.

“Ima Saisentan no Kenkyuu ga Omoshiroi”
(The Wonderful World of Cutting-Edge Research)

This book introduces the backgrounds, personality, interests, research fields, and activities in the Project Research Institutes*, of the 20 Waseda University faculty selected from every undergraduate school (including nine professors who participated in the Breakfast Salon held in 2002-03).

*Project Research Institutes: interdisciplinary research projects for the purpose of promoting cutting-edge academic research endeavors. Extensively collaborating with public institutions, they encourage the invitation and acceptance of research professionals from outside the university system and the utilization of external funding for the projects. The Project Research Institutes proceed with their research to further meet current demands through organizational scrap-and-building.

◆ VTR Creation

“Cyber University Consortium”

This video summarizes the activities and efforts toward CUC establishment, mainly the contents of the joint experimental course “Coexistence in Asia”, including interviews to the participating faculty and students, as well as introduces the proceedings of the International symposium “Toward Global Co-Creation of the intellect in the Asia-Pacific Region”, both held in the academic year 2003.
### Membership Corporation List (as of June 1st, 2004)

<table>
<thead>
<tr>
<th>Member Category A</th>
<th>Member Category B</th>
<th>Member Category C</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTT COMWARE CORPORATION</td>
<td>Sony Broadband Solutions Corp.</td>
<td>NNA JAPAN CO., LTD.</td>
</tr>
<tr>
<td>Matsushita Electric Industrial Co., Ltd.</td>
<td>TOWA ENGINEERING CORPORATION</td>
<td>Sun Microsystems K.K.</td>
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<tr>
<td>NEG Corporation</td>
<td>Yokogawa Electric Corporation</td>
<td>Technovan Co., Ltd.</td>
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<tr>
<td>NEC Soft, Ltd.</td>
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<td>The Japan Kanji Aptitude Testing Foundation</td>
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<td>Totsu Sangyo Co., Ltd.</td>
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<td>UCHIDA YOKO CO., LTD.</td>
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<td></td>
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<td>WORLD BUSINESS CENTER CO., LTD.</td>
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</table>

Total: 24 Corporations (as of June 1st, 2004)

### DCC Steering Committee

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chairman</strong></td>
<td>Naoji Takagi, Executive Board Director (for External Dealings, Enterprises, and General Planning), Waseda University</td>
</tr>
<tr>
<td><strong>Vice-Chairman</strong></td>
<td>Kiyoshi Oda, NTT Comware, Inc.</td>
</tr>
<tr>
<td><strong>Supervising Director</strong></td>
<td>Michiko Nakano, Director, Distance Learning Center, Professor, School of Education, Waseda University</td>
</tr>
<tr>
<td><strong>Committee Members</strong></td>
<td>NTT COMWARE CORPORATION</td>
</tr>
<tr>
<td></td>
<td>Matsushita Electric Industrial Co., Ltd.</td>
</tr>
<tr>
<td></td>
<td>NEC Corporation</td>
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<tr>
<td></td>
<td>NEC Soft, Ltd.</td>
</tr>
<tr>
<td><strong>Special Advisor</strong></td>
<td>Yoichi Muraoka, Vice-President (for General Planning, Research Promotion, Information Systems), Professor, School of Science and Engineering</td>
</tr>
</tbody>
</table>
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