

Session 10

외국의 멀티미디어 교육사례

부경대 박만곤 교수

COMPAQ

DigiCom system

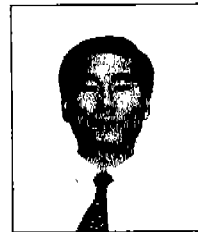
세계의 교육정보화 동향 외국의 멀티미디어 교육 사례



외국의 멀티미디어교육사례 - 1 -

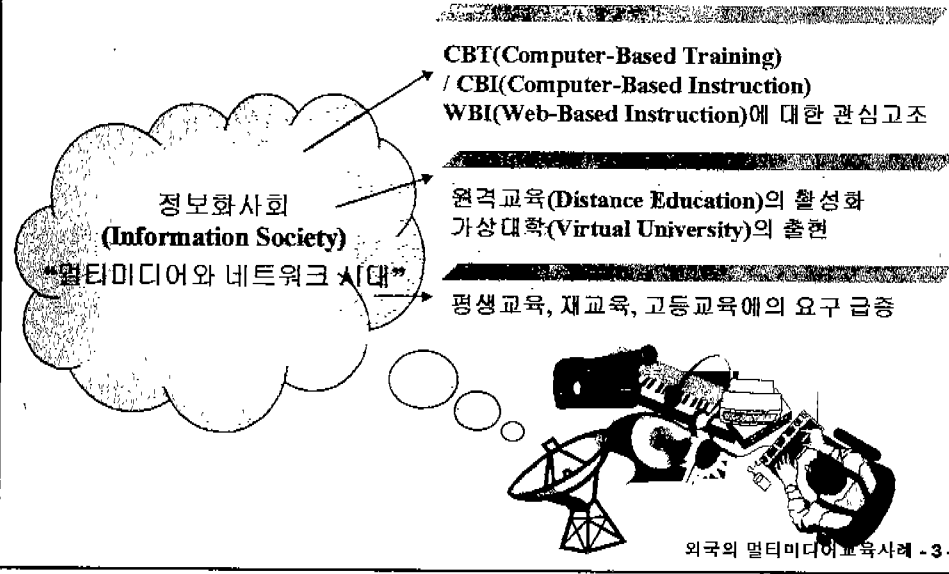
목 차

1. 정보통신 및 멀티미디어 기술의 발전에 따른 교육 패러다임의 변화
2. 멀티미디어 교육의 사례들
 - (1) 미국
 - (2) 캐나다/호주
 - (3) 영국/일본
 - (4) 동남아 국가들
 - (5) 아프리카 국가들



외국의 멀티미디어교육사례 - 2 -

1. 정보통신 및 멀티미디어 기술의 발전에 따른 교육 패러다임의 변화



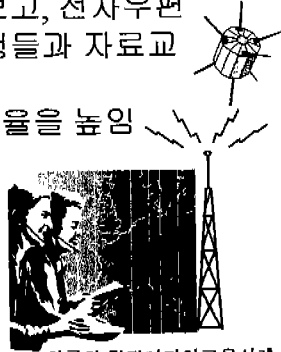
디지털 매체와 새로운 교육방법

1. 디지털 도서관 (Digital Library)

- 정보의 양이 기하급수적으로 증대되고
- 정보의 수집 및 보관방법비용의 증가
- 디지털 매체로 정보를 연결
- 교사와 학생들에게 강의실을 확장
- 원격접근을 통한 학습여행, 가상초청강연, 희귀한 자료들에의 접근 용이
- 지역사회의 관심을 지원
- 비공식 교육의 증가

2. 가상 교실 (Virtual Classroom)

- 정보통신과 멀티미디어 기술을 바탕으로 학습을 위한 공간과 시설을 소프트웨어로 마련한 교육환경
- 교사의 강의를 녹화하여 대화형 방법으로 선택학습
- 학생들은 가정에서 디지털 도서관에 접속하여 학습 매체들을 열람하기도 하고, 시험을 보고, 전자우편 및 게시판을 통해서 교사와 다른 학생들과 자료교환 및 토론
- 교육에의 접근을 확대하고 교육의 효율을 높임
- 협력 학습(Collaborative Learning)



외국의 멀티미디어교육사례 - 5 -

2. 멀티미디어 교육의 외국 사례들

(1) 미국



- 대다수의 정보통신기술 및 멀티미디어 기술의 개발을 선도
- 대다수의 초·중등학교 및 대학이 디지털 도서관 및 가상교실/가상캠퍼스 설치운영
- 다양하고 광범위한 지역, 국가, 국제적인 멀티미디어 교육 그룹 (MEG : Multimedia Education Group) 구축 운영
- 멀티미디어 CAI 학습·교재 개발 방법론 주도
- 교육용 S/W 20,000여 편 개발, 100만 명 이상 학생이 인터넷을 통한 멀티미디어교육을 받음

외국의 멀티미디어교육사례 - 6 -

● 캘리포니아 대학의 버클리 멀티미디어 연구 센터

The Berkeley Multimedia Research Center

What's Happening?
Multimedia from an
Sponsor

Research Areas
Broadcasting, Video
Schedule

Other Information
Starting a Project with the
BMRC?
Fill out the online Project
Support Form.

About BMRC web sites
Access, updates, links,
support and more.

BMRC Research
Information and web sites about BMRC
Research including the Berkeley Internet
Broadcasting System, the Video on
Demand System, and Research Papers

BMRC Projects
Complete listings of BMRC projects
including new Multimedia Titles.

BMRC Resources
Information on BMRC resources available
to the campus community including
multimedia labs, how-to guides.

Multimedia at UCB
Other multimedia resources at UCB,
including online calendar of events

About the BMRC
Information about the Berkeley
Multimedia Research Program including
publications, our annual report and the
people of the BMRC

**Berkeley
Multimedia
Interfaces, and
Graphics Seminar**

**What's
Hot in Reality**

Copyright 1999, Regents of the University of California

● CINECOM Co.의 화상회의, 가상교육 및 협력훈련을
위한 멀티미디어 전달 시스템

CINECOM Corporation

CINECOM

Multimedia Delivery Systems for Videoconferencing, Virtual Education, and Corporate Training

CINECOM Corporation now offers online Computer Based Training for only \$10/minute! [more...](#)

Join our News List and keep up to date on new product development and software upgrades! [more...](#)

Audio **Video Distribution**

Web **Applications**

Prod. Resources **Servers**

White Papers **Purchasing**

Customers **Download**

Investors **Online**

Training

Software Development

Central Products Services

Special Offer on Video Conferencing Hardware

● NYIT의 멀티미디어 교육 이수 증명

What's New

- **Absent Member Teachers' Course**
- **Advanced and Inservice Courses**
- **Statewide Internet Technology Center**
- **Essential Courses**
- **Essential Institutes**
 - 21 Century School
 - Science and Math
 - Learning to Learn
 - Language Study
- **Student Activities**
 - 4th Int'l. Summer Institute for Teachers

Multimedia Education

New York Institute of Technology


Certificate in Multimedia Education

The 18-credit certificate program is designed to extend the applicant's professional educational technology experience and advance the individual's skills in multimedia educational technology by providing each individual with an opportunity to develop the knowledge and skills necessary to fully integrate multimedia technology into teaching at all levels, K-12.

Admission Requirements

- Baccalaureate degree
- Provisional teaching certification

● 샌프란시스코 주립대학의 멀티미디어 학습 프로그램



MULTIMEDIA STUDIES PROGRAM

"A safe and nurturing hands-on environment, MSP uncovers and demystifies the bleeding cutting edge in today's emerging technologies."

ROBERT ALTMAN
Web Developer
Professional Photographer
ROBERT@ALTMAN.COM

Located in San Francisco's Multimedia Tech since 1997, the MSP targets the convergence of media, where creativity meets employability.

With a comprehensive course of study in all aspects of multimedia, state-of-the-art facilities, a certificate program, internships on and off site, job listings, and a faculty of industry professionals, the MSP offers you more than an on-line multimedia training program.

Thursday, September 22, 1998

ANNOUNCEMENTS

<p>offers more available evenings, weekends and daytime from theory to design to tools and techniques.</p>	<p>New Internet Intensive Program</p>	<p>20-week intensive and on-part-time evening industry.</p> <p>helps you understand the required skills to succeed in the industry.</p>
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(2) 캐나다/호주

- 캐나다는 SchoolNet (<http://www.schoolnet.ca>)을 개발, 운영, 활용 및 교육용 멀티미디어 S/W 개발과 수출
- 금년까지 캐나다 전역의 초 중 고등교육기관 16,500개교를 비롯해 전 교육기관과 전 도서관에서 SchoolNet을 활용할 수 있도록 컴퓨터 보급과 네트워크 시설 지원
- 호주는 교육용 웹 사이트인 EdNA (<http://www.edna.edu.au/>)를 구축 운영

● 캐나다의 스쿨넷

What's New

Canada's **SchoolNet**

Connect Learning Resources Programs

SchoolNet Interactive
a webcast series for students

Provincial/Territorial Educational Network

Cool places to go Thursday, September 2, 1999

CANADA IS #1

SCHOOLWINNERS

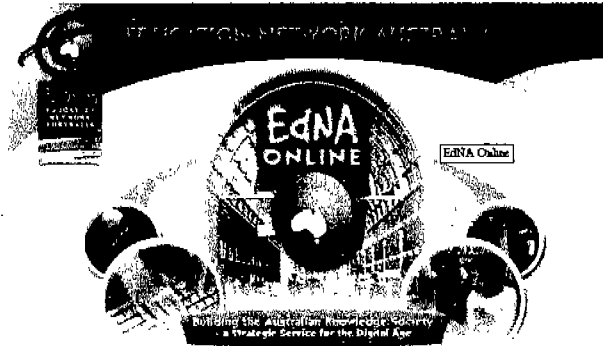
IMAGINE 2020

YEARN

The SCHOONNET CLASSROOMS NATIONAL CAMPAIGN thanks its founding Partner

Microsoft

● 호주의 EdNA



EdNA (Education Network Australia) is a network of and for the Australian education community (government and non-government schooling systems, vocational education and training, adult community education and higher education). This website, EdNA Online, supports and promotes the benefits of the Internet for education. It is organised around Australian curriculum; its tools are free to Australian educators and it is funded by the bodies responsible for education provision in Australia - all Australian governments.

Due to overwhelming demand for the EdNA Challenge competition, planned changes to the EdNA system have been brought forward. Some final adjustments will be occurring over the next week or so. We hope you like the new changes.

● 캐나다 Nova Scotia에 있는 케이프 브레톤의 유니벌서티 칼리지 멀티미디어 교육 센터

The MEC is comprised of a computer lab, a videography production area, a teacher's resource collection, a language lab, a National Film Board of Canada collection and the Education Kits from the Nova Scotia Museum.



MULTIMEDIA EDUCATION CENTRE

About the MEC

The Multimedia Education Centre's (MEC) present thrust is the application of multiple forms of media to education. Until recently, media usage was the dominant activity at the Centre. However, with the addition of the AVID digital video editing system and more video equipment, as well as the upgrading of our networked microcomputers, media production is becoming more prominent.

Goals of the Multimedia Education Centre

- 1 to support the educational activities of the students, faculty, staff of UCCB and people from the greater Cape Breton community, and
- 2 to provide a unique pleasant atmosphere conducive to accessing information and learning via media.

Facilities and services

- providing the facilities to interact with educational materials in a variety of medium formats
- providing instruction and consultation in the use of media materials for learning and teaching
- providing videotaping, editing and dubbing
- circulating a videotape library (approximately 1200 videotapes in the collection which is searchable via Novanet), along with the K to 12 curriculum materials and other special collections housed in the MEC.
- maintaining a microcomputer lab and a language lab and assisting users of both

● 호주 멜버른 대학의 멀티미디어 교육부



Interactive Multimedia and Education

- [Apple Education Worldwide](#)
- [Guide to Multimedia Educational Material](#)
- [WWW Virtual Library: Educational Technologies](#)

The Internet and Education

- [Enter the World-Wide Web: A Guide to Cyberspace](#)
- [Online-Ed forum](#)
- [The Moderator's Homepage](#)
- [Yahoo! Online Teaching and Learning](#)

Conferences and Events

- [DoingIT at Melbourne](#), University of Melbourne, Oct 30
- [Intranet97](#), Melbourne, Oct 30 - Nov 2
- [AIMIA Multimedia Industry Awards](#), Melbourne, Oct 31
- [ATOM Australian International Multimedia Awards](#), Melbourne, Nov 1
- [WebNet97](#), Toronto, Canada, Oct 31 - Nov 5



(3) 영국/일본

- 컴퓨터 교육에 가장 앞선 국가로 평가 받는 영국에서는 1998-2000까지 국가 학습망 (National Grid for Learning) 사업을 추진
- 영국은 멀티미디어 교육용 S/W를 민간 개발사에 맡겨서 자유 시장 체제를 통한 민간산업체의 경쟁력을 강화
- 일본은 전지역에 교육용 S/W 도서관을 설치하고 각급 학교의 모든 교과에 활용할 수 있는 다양한 멀티미디어 교육용 S/W 개발, 수집 및 전시

● 영국 노팅엄 대학의 고등교육에 있어서 멀티미디어 코스웨어 개발자를 위한 지침



THE UNIVERSITY OF Nottingham



UNIVERSITAS 21



New Frontiers of Learning

Guidelines for Multimedia Courseware Developers in Higher Education

New Frontiers of Learning has been produced as part of the ITTI (Information Technology Training Initiative), and it is available from UCoSDA (ISBN 1 85889 062 4)

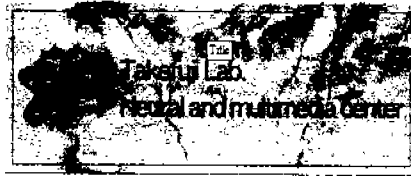
To order the guidelines please contact Mrs Jean Burgan, UCoSDA

A version of *New Frontiers of Learning* now available on the WWW. This contains almost all of the original material in a hypertext form together with regular updates. There is also a search engine.

- *New Frontiers of Learning*, Electronic Edition

● 일본 국립 멀티미디어 연구소 (NIME)

● 일본 게이오 대학의 뉴럴 및 멀티미디어 센터

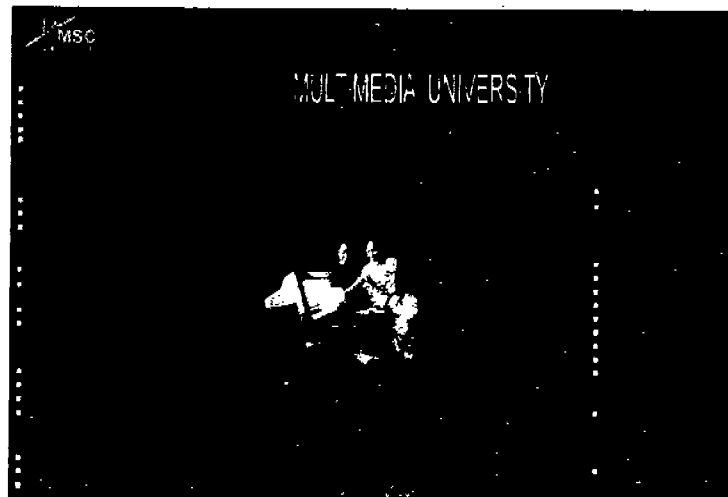


This is a neural and multimedia center for solving real-world problems including VLSI CAD, medical imaging, molecular biology, operations research, mathematics, games, management science, agriculture, and computer-art.

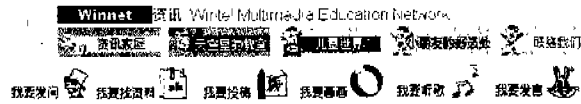
The projects are supported by Information-technology Promotion Agency of MITI, TEPCO, Moemai, Torocom, KAST, Toshiba, Fuji Electric, Matsui, NAL, NHK, Mitsubishi (retina camera, wireless), Synergy Incubator, Mitsui, FujiXerox, Yonsei, Yonsei Symposium, Tokyo Community, Daigocho, Toray, SS, and other organizations. We have been supporting the CEDECI project in Argentina from Nov., 1995, the PSDI (Philippine Software Development Institute) of National Computer Center of the Philippine government from March 30, 1997, and VITH (Vietnam Information Technology Training Institute) from June 4, 1998 through the assistance of the JICA, and Malayasia University of Malaysia. We are also currently supporting the Japan Writers Association, Tomoe scrobau and CyberSign.

(4) 동남아 국가들

말레이시아



Malaysia의 "Wintel Multimedia Education Network"



线上测验
小朋友，你想不想评估一下自己在校园里学了多少，这儿的《线上测验》可以让你忙！

— 资讯筛选儿童教育网站 —



成立于1998年，http://www.dus-internet.com
台湾首创的儿童与网络网站，其主要分为E-
教学及儿童生活资讯两部分。

《小熊队》是小朋友抒发心情、发问的园地，
国王与小朋友问答。

《小朋友的资讯》是小朋友的资讯网站，
小朋友的资讯广告，是儿童《小朋友书库》。



朵朵伞花

提供大量的Email地址，希望能
在您的信箱里找到与您共舞的伙伴。

浏览本站，建议采用：

- 分辨率 640 X 480
- 浏览器 Netscape V4
- 播放器 Njwin
- RealPlayer CZ
- Shockwave

(5) 아프리카 국가들

남아공화국

Univ. of Cape Town The "Africa 1300" Project

University of Cape Town
Private Bag
Rondebosch
7700, South Africa
Fax: 021-650 3841
Email: meg@its.uct.ac.za