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Educational Technology in Higher Education at China

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Content

- Overview of ET in China
- National Projects in recent years
- ET Organizations in higher education
- Dept. Of ET in PKU
Part 1: Overview
 Origin

• 30’s film /slide
  1922, “Audio/Video” --> 电化教育

• 1978, the first two Institutes of Audio/Video Research were set up in Beijing Normal University and South China Normal University
History

- Start from 1922: slide, film
- Restart in 1978: TV, slide
- Popular in early 80s: audio-video center
- Flourishing in later 90s: multimedia classroom/Campus Computing
- Rebirth in 21st century: Web-based Distance Education
Trend in China

- Media comparing, topic experiment
- Single subject, single class, short period
- ET faculties do the research

- In a whole, comprehensive
- Multi-courses, whole school, long period
- Leaders, teachers and researchers
Trend in China

- Surrounding Diathesis Education
- Network will be the core media
- Education materials producing, available on line
- Recruit more students for the modern distance education
- IT training for Teachers and students
Research Work

- 教育技术在学科教学中应用研究
  Applying Educational Technology (multimedia, network) in subject education especially on critical thinking
- 教学学习资源建设研究
  Education Materials production
- 新型教学模式研究
  New Instructional Paradigm
Research work

- 教育技术理论研究
  **Educational Technology Theory Research: strategy research, comparing, cross-culture**

- 现代远程教育理论与实践研究
  **Modern Distance Education: theory and practice**

- 教育技术人才培养开发
Part 2: Organizations
Organizations in ET

- **Audio-Video Centers**
  National （中央电教馆）
  Province, City, borough

**Functions:**
- educational materials
  video types, software, books
- teacher training

**Audience:** k-12 schools and teachers
Organizations in ET

- **Association of Audio-Video Professional (中国电化教育协会)**
  Social and Science, Engineering, Medicine, Agriculture, Army

Functions:
- Cooperation on educational materials
- Information and experience exchange

Members: Universities’ and Colleges’ faculties (80%)
Organizations in ET

- China Education Technology Association of Higher Education Institutes

Functions:
- information exchange (netcourse, website, magazine)
- teacher training center

Membership: 420 Universities and Colleges
Organizations in ET

Modern Educational Technology Center

= Audio-Video Center
(+ Network-based College)
(+ Network Center)
(+ Computing Center)
Organizations in ET

Departments of ET =
- Department of Audio-Video
- Department of Computer Science
- Department of Physics
- Audio-Video Center
Degrees on E.T.

- Degree on Educational Technology
  - 56 universities have bachelor programs
  - 10 universities have master programs
  - 4 universities have Ph.D programs
    - Beijing Normal University(2)
    - South China Normal University(4)
    - East China Normal University(2)
    - Nanjing Normal University(1)
Part 3: Projects
Projects

- Practice and Experiments
- Modern Distance Education
- Education Materials
Practices and Experiments

- 《电化教育促进中小学由应试教育转向素质教育的实验研究》（MOE）
  18 provinces, 236 schools

- 《小学语文四结合教学改革实验项目》
  18 provinces, 602 schools

- 《中国基础教育现代化工程实施策略研究》
Practices and Experiments

- 《高等师范面向21世纪教学内容和课程体系改革计划》之《现代教育技术应用研究与实践》
- 《高等教育面向21世纪教学内容和课程体系改革计划》之《普通高校电教面临的问题与对策》
- 《北京朝阳区职业教育课程开发》（联合国）
Modern Distance Education

- 《以电子信息技术为主要教学手段的远程教育研究》（7.5）
- 《广播电视大学质量保证体系与信息资源利用研究》（8.5）
- 《广播电视大学实现现代开放教育的研究》
- 《人才培养模式改革和开放教育试点》
Modern Distance Education

- Modern Distance Education
  - CERNET: The basic framework for national education and science research
  - Satellite + {ISDN, internet/intranet}
  - new century netcourses: 200 courses
Work focus

- Modern distance education transmission system technical implementation approach
- Network teaching platform construction
- Modern distance education resource construction (teaching resource library, network courses and design development)
- Modern distance education teaching management system and evaluation indicator system
Education Materials

- 《CAI软件研制与开发应用》
- 《教育技术信息资源库建设与应用》
- 《中小学课件的研制与开发》（北师大）
- 《中学计算机辅助教学软件品质与教学模式的相关优化研究》（西南师大）
Education Materials

- 《基础教育多媒体计算机教学网络现代化建设研究》（江西师大）
- 《现代化教学环境建设》（西安交大）
- 《信息高速公路与多媒体辅助教育的研究》（天津师大）
Part 4: ET in PKU
Introduction to GSE

- The Graduate School of Education was set up last November
- 3 Departments:
  - Dept. Of Education and Human Development
  - Dept. Of Education Economics and Administration
  - Dept. Of Educational Technology
Dept. Of E.T.

- 12 teachers, 9 technicians
  - 4 professors
  - 2 associate professors
    - the other are assistant professors
- all have master degrees in Science from PKU
- Strong background in Computer Science
Graduate programs

- 2 programs
  - Education materials and instruction design including: multimedia, IT merge with classroom
  - Network-based Educational Technology focus on: web-based instruction, campus computing
What we did

• platform for multimedia course development
  • especially for math course
  • math symbols are not image, can be calculated
  • draw math curve based on formula
  • automatic judge the exercises
What we are doing

- Modern Distance Education System Standards(MOE)
- The Strategies Research for National Modern Distance Education(MOE)
What we are doing

- Educational Resource Tank for PKU
- Campus Netcourse Delivery Platform
- Toolkit for Multimedia Course Development
What we are doing

- 《Information Technology》 course for primary, middle school and high school (VCD)

- 2 netcourses supported by MOE
- 4 netcourses supported by PKU
- 6 netcourses supported by dept.
What we will do

- Advanced Studies in Graduate Program
  - Leadership
  - Special professional
- Certification program
  - Leadership
  - Special professional
Aims

- **First-class Research Institute**
  focus on: ET over web materials, instruction method, technical Support, behavior analysis, tools evaluation

- **ET Professional Center**
  discussion, comments, evaluation, consulting
Advantage

- In the right time
- Peking University is a famous university in China
- Good relationship with MOE
- Dean of Education is vice present of the University
- Good faculties and facilities
disadvantages

- No professional
- less knowledge on Education Theory, just begin to learn
- in early stage
- less real experience
Thanks!