



**Mongolian University
of Science and Technology**



**United Nations
Educational, Scientific and
Cultural Organization**



**UNESCO Institute
for Information Technologies
in Education**

International Conference EICTHE-2011

Emerging ICTs in Higher Education

**July 8–10, 2011
Ulaanbaatar, Mongolia**

Jointly Organized By

Mongolian University of Science and Technology

UNESCO Institute for Information Technologies in Education

Conference Co-organizers



**National University
of Mongolia**



**United Nations
Educational, Scientific and
Cultural Organization**

**ЮНЕСКО-гийн Монголын
Үндэсний Комисс**

**Mongolian National
Commission for UNESCO**



**Mongolian State
University of Education**

<http://www.must.edu.mn/eicthe2011/>

Announcement of the International Conference

We hereby would like to inform you that the International Conference “**Emerging Information & Communication Technologies in Higher Education-2011**” will be held jointly by the **Mongolian University of Science and Technology and the UNESCO Institute for Information Technologies in Education** at the Mongolian University of Science and Technology on July 8 – 10, 2011 in Ulaanbaatar, Mongolia.

We would like to cordially invite you to participate and attend this conference which is aimed for raising awareness of emerging ICTs in higher education of developing countries; discuss best practices and strengthen partnerships for establishing a strategy for quality of higher education. For detailed information please see the **Concept Paper**.

Plenary and Parallel Sessions of the Conference

The International Conference will be organized under the main topic “Emerging Information & Communication Technologies in Higher Education”.

The conference parallel sessions will be carried out through the following **sessions**:

- 1. Application of the Emerging ICTs in Higher Education**
- 2. Open Educational Resources**
- 3. University Management Information System**

PRELIMINARY PROGRAMME

EICTHE-2011 Committee

ORGANIZING COMMITTEE

General Chairs:

B.Damdinsuren,	President of MUST
D.Badarch,	Acting Director of UNESCO Institute for Information Technologies in Education

Co-Chair:

Ya.Narantsetseg,	Vice-president on Academic affairs, MUST
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Secretary of the Organizing Committee:

B.Ochirbat,	Vice-president on Research and Technology, MUST
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Members of the Organizing Committee:

T.Batbayar,	Vice-president on International Cooperation, MUST
G.Damdinnyam,	Vice-president on Finance and Social Development, MUST
S.Yu.Knyazeva,	Knowledge Services Team Leader, UNESCO Institute for Information Technologies in Education
D.Dalaijargal	Secretary-General of Mongolian National Commission for UNESCO
Ch.Lodoiravsal	Director, School of Information Technology, NUM
L.Choijoovaanchig	Director, School of Computer Science and Information Technology, MSUE
N.Ganzorig,	Head, Department of Academic Policy, MUST
D.Enkhbat,	Head, Department of Science, Technology and Innovation, MUST
P.Otgonbayar,	Director, School of Civil Engineering and Architecture, MUST
D.Oyun,	Director, School of Geology and Petroleum Engineering, MUST
G.Batkhurel,	Director, Computer Science and Management School, MUST
T.Namnan,	Director, School of Mathematics, MUST
P.Munkhbaatar,	Director, School of Material's Science, MUST
B.Erdenebat,	Director, School of Mechanical Engineering, MUST
B.Sukhbat,	Director, School of Information and Communication Technology, MUST
B.Purevsuren	Director, School of Social Technology, MUST
L.Purev,	Director, School of Mining Engineering, MUST
T.Amarjargalan,	Director, Industrial Technology and Design, MUST
J.Tuyatsetseg,	Director, School of Food Engineering and Biotechnology, MUST
D.Bold,	Director, School of Language Education, MUST
Ch.Mangaljalav,	Director, School of Power Engineering, MUST
D.Turbat,	Director, Vice-director of E-Open School, MUST
Ch.Gulnar,	Director, Central Library of Science and Technology, MUST
L.Boldbaatar,	Director, International Higher Education Research Center, MUST

PROGRAM COMMITTEE

Members of the Program Committee:

Ts.Tumurchudur,	Senior officer, Department of STI, MUST
B.Sukhbaatar,	Professor, SICT, MUST
B.Otgonbayar,	Professor, SICT, MUST
Z.Buyankhishig,	Professor, SICT, MUST
B.Zorigbaatar,	Professor, SICT, MUST
Ts.Baatarkhuu,	Professor, SICT, MUST
A.Erdenebaatar,	Professor, CSMS, MUST
S.Baigaltugs,	Professor, CSMS, MUST
Ts.Ganbat,	Professor, CSMS, MUST
U.Esbold,	Professor, CSMS, MUST
D.Khalzaa,	Professor, SPE, MUST
E.Ninjarav	Vice-director, SCEA, MUST
R.Bolormaa,	Science secretary, SCEA, MUST
B.Batkhishig,	Science secretary, SGPE, MUST
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B.Uuganbayar,	Science secretary, SM, MUST
B.Dorjsuren,	Science secretary, SMS, MUST

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B.Bayarsuren,	Science secretary, SME, MUST
N.Erdenekhuu,	Vice-director, SICT, MUST
Ts.Baljinnyam,	Science secretary, SICT, MUST
Ts.Battseren,	Science secretary, SST, MUST
B.Altantuya,	Science secretary, SME, MUST
B.Enkhtuya,	Science secretary, SITD, MUST
Ts.Odbayar,	Science secretary, SPEB, MUST
D.Ganchimeg,	Science secretary, SLE, MUST
J.Arslan,	Vice-director, SPE, MUST
J.Tseyen-Oidov,	Science secretary, SPE, MUST

TECHNICAL COMMITTEE

Members of the Technical Committee:

Yu.Boldbaatar,	Head, Department of Administration, Monitoring and Evaluation, MUST
S.Tugs,	Head, Department of Finance and Economy, MUST
Ts.Sarantuya,	Head, Department of International Cooperation, MUST
T.Enkhtsatsral,	Head, Office of Postgraduate Study, MUST
D.Orkhon,	Head, Unit of Technical Services, MUST
T.Turmunkh,	Senior officer, Department of STI, MUST
Ts.Oyun,	Officer, Department of STI, MUST
D.Boldbaatar,	Officer, Department of STI, MUST
U.Batbaatar,	Senior officer Department of International Cooperation, MUST
D.Tumennasan,	Officer, Department of International Cooperation, MUST
T.Solongo,	Officer, Department of International Cooperation, MUST
Kh.Otgon-Erdene,	Senior Officer, Office of Postgraduate Study, MUST
Ts.Serchmaa,	Officer, Office of Postgraduate Study, MUST
S.Ulziit,	Officer, Unit of Technical Services, MUST
O.Ariunjargal,	Senior Officer, Central Library of Science and Technology, MUST
T.Nyamaa-Odser,	Network engineer, Central Library of Science and Technology, MUST
Kh.Khunbish,	Officer, E-Open School, MUST
Ch.Purev,	Officer, E-Open School, MUST
B.Altantuya,	Senior accountant, MUST
S.Dorjsuren,	Officer, Press and Information office, MUST

Venue

Conference Hall 604, Central Library Campus, MUST	Opening Ceremony, Plenary Session, Parallel Session 1	Baga toiruu-34, Ulaanbaatar city, Mongolia
Conference Hall 604, Central Library Campus, MUST	Parallel Session 2	Baga toiruu-34, Ulaanbaatar city, Mongolia
Conference Hall 604, Central Library Campus, MUST	Parallel Session 3	Baga toiruu-34, Ulaanbaatar city, Mongolia

General Programme

Date and Time		Program	Place
July 08, Friday	9:00-09:30	Opening of the UNESCO Publication Corner at MUST	MUST, Central Library Campus, Room 603
	9:30-10:00	Registration	Conference Hall 604, Central Library Campus, MUST
	10:00-10:30	Opening Ceremony of the Conference	
	10:30-11:45	Plenary session of the Conference	
		Coffee/ Tea break	
	12:00-13:30	Plenary session of the Conference	
		Lunch	MUST Cafeteria
	14:30-15:45	Plenary session	Conference Hall 604, Central Library Campus, MUST
		Coffee/ Tea Break	
	16:00-17:30	Plenary session	
		19:30-21:30	Official Banquet
July 09, Saturday	9:00-11:20	Parallel sessions	Conference Halls 604,602 and 405, Central Library Campus, MUST
	11:20-11:40	Coffee/ Tea Break	
	11:40-13:30	Parallel Sessions of the Conference	
	13:30-14:30	Lunch	MUST Cafeteria
	14:30-15:30	Visit Gandan Monastery	Departure from the MUST
	15:30-17:30	Free time	
	18:00-19:00	Performance of Mongolian National Music and Dance Ensemble	
	19:30-21:30	Reception by the President of the MUST	To be defined
July 10, Sunday	10:30-11:30	Bestowing Ceremony of the MUST Honorary Doctor Title to Mrs. Irina Bokova, Director-General of UNESCO	Conference Hall 604, Central Library Campus, MUST

The Opening Ceremony

Friday, 08 July 2011

10:00-10:30 **Official Opening Ceremony of the Conference**
(Conference Hall 604, Central Library Campus, MUST)

Chairperson: Prof. Ochirbat Baatar, MUST Vice-President

Welcome Speeches:

Mr. Otgonbayar Yondon,

Minister of Education, Culture and Science, Mongolia

Director of the Mongolian National Commission for UNESCO

Prof. Damdinsuren Bayanduuren,

President of the Mongolian University of Science and Technology

Mr. Badarch Dendev,

UNESCO Representative in Armenia, Azerbaijan, Belarus, the Republic of

Moldova and the Russian Federation, Director of the UNESCO Moscow

Office and Director a.i. of UNESCO IITE

Mr. Abhimanyu Singh,

Director and Representative, UNESCO Beijing Office

Plenary Session Programme

Friday, 08 July 2011

Time	Presentation Subject	Author (Presenter)
Chair: Prof B.Ochirbat (MUST, Mongolia)		
10:30- 10:55	A Role of ICTs in Education Development of Mongolia	Mr. E.Otgonbayar, Minister of Education, Culture and Science, Mongolia
10:55-11:20	Technological and Pedagogical challenges for Higher Education in a Knowledge Digital Society	Prof. Bernard Cornu, Director of the Innovation, CNED, France
11:20-11:45	The Current Development of E-Learning System in the MUST	Prof. Damdinsuren, President of the MUST, Mongolia
Coffee / Tea Break		
12:00-12:25	Open and Distance Learning in the Mongolia's context	Prof. Abhimanyu Singh Director and Representative UNESCO Office Beijing, China
12:25-12:50	Smart Innovation in Open Higher Education in Mongolia	Prof. Dae Joon Hwang, Sungkyunkwan University, Korea
12:50-13:15	ICT in Education: UNESCO IITE in action	Prof D.Badarch, Director, UNESCO Moscow office, Acting Director of UNESCO IITE

13:15-13:30	Q&A Discussions	
Lunch		
Chair: Prof. Bernard Cornu (CNED, France)		
14:30-14:55	Open Learning, Open Educational Resources and Open Universities	Prof. Dominic Newbould, Open University, UK
14:55-15:20	Benefits of Broadband for Education in Developing countries: Case Study of Mongolia	Dr. U.Odgerel, Head of Department, Information and Communication Technology Authority, Mongolia,
15:20-15:45	Emerging ICT for New Engineering Education	Prof. Jianzhong Cha, Beijing Jiaotong University, China
Coffee/ Tea Break		
16:00-16:25	Specialization of the educational programme	Prof. Korshunov S.V, Vice-President, Moscow Bauman State Tech University
16:25-16:50	Challenges of OER for Enhancing Education for Sustainable Development	Prof. Toshio Kobayashi, Graduate University for Advanced Studies, Japan
16:50-17:15	Smart-technology of eLearning based on integrated information and educational space	Prof. Telnov U.F, Vice-President of Moscow State University of Economics, Statistics and Informatics, Russia
17:15-17:30	Q&A Discussions	
Closing of the Plenary Session		

Parallel Sessions Programme

Saturday, 09 July 2011

Session I: Application of the Emerging ICT in Higher Education

Chair: B.Otgonbayar (MUST), Co-Chair: Prof.Ch.Lodoiravsal (NUM)		
Time	Subject	Authors (Presenter)
9:00-9:20	Application of advanced ICT in Higher Education	Prof. B.Sukhbaatar (MUST)
9:20-9:40	Using of Computer Technologies in creation of Database of University students	O.Kotomanova, (Buryat State University, Russia)
9:40-10:00	Paralel programming in Construction Mechanics	N.Saranchimeg (MUST)
10:00-10:20	Development to create an Electronic tutorial on Automotive systems and Mechanisms	P.Choisureen, A.Erdenetuya (MUST)
10:20-10:40	Some issues on IT and its using for military lessons at Border University of Mongolia	S.Battumur (Border university, Mongolia)
10:40-11:00	Some issues on IT for Defence University of Mongolia	Oyuntsetseg Luvsandash (Defence university, Mongolia)
Coffee/Tea Break		
11:20-11:40	Use of ITCs for teaching Mongolian History: In a case of Mongolian University of Science and Technology	Prof. N.Galiimaa (MUST)
11:40-12:00	The Graphical Method for Decision of	B.Sukhbat, Ts.Hurelbaatar

	Restitution Coefficient and Its Simulation Lab Applications	(MUST)
12:00-12:20	Machine Translation System for Korean-Mongolian languages	Kim Young Mi (Khuree University, Mongolia)
12:20-12:40	The information system of functional diagnostics using the methods of the Tibetan and Mongolian medicine	Darmaev Tumen, (Buryat State University, Russia)
12:40-13:00	Using SVM to Improve Quality of Higher Education System	D.Enkhjargal, A.Erdenebaatar (MUST)
Adoption of the final document		
Closing of the Parallel Session 1		

Session II: Open Educational Resources

Chair: Dr.R.Turbat (MUST), Co-Chair: Prof.S.Korshunov (Moscow State Tech University)		
9:00-9:20	Current Development of IT in the MUST (UNIMIS, UNILMS)	Dr. R.Turbat (MUST)
9:20-9:40	Some Problems of Open Education	Ts.Battseren, D.Ganbold (MUST)
9:40-10:00	The Feasibility Assessment to Develop Open Education in Mongolia	B.Munkhkhuj, A.Erdenebaatar (MUST)
10:00-10:20	Some Problems of Creating an Electronic Textbook	D.Tsedevsuren, D.Buyahtogtokh (MSUE)
10:20-10:40	Using exhibits of historical virtual museum in e-Learning	G.Ganchimeg (MUST)
Coffee/ Tea Break		
11:00-11:20	Development of U-Learning Training for the course “Mechanics of Materials”	D.Ganbat, R.Naidandorj (MUST)
11:20-11:40	Knowledge discovery in Databases	T.Suvdmaa (MECS)
11:40-12:00	Data Mining and Artificial Intelligence Applications in Higher Education	D.Sarangerel, T.Zolboo, A.Erdenebaatar (MUST)
12:00-12:20	ICT application in HE:Using high speed wireless communication	Ts.Anar, D.Erdenechimeg (MUST)
Adoption of the final document		
Closing of the Parallel Session 2		

Session III: University Management Information System

Chair: Dr.Ts.Ganbat (MUST), Co-Chair: Prof. Yu.Telnov (MESI, Russia)		
9:00-9:20	Information System of Buryad State university	S.V. Arkhipov (Buryat State University, Russia)
9:20-9:40	Development of Management Information System of the NUM	J.Uitumen (NUM, Mongolia)
9:40-10:00	Computer Based planning of Academic process and Proficiency examination program of disciplines and cycles of disciplines	E.Stepanova, (Buryat State University, Russia)
10:00-10:20	Path Planning Algorithm for Service Robot in the Library	B.Khurelbaatar, B.Zorigbaatar (MUST)

10:20-10:40	The Statistic Analysis of the Network Traffic Of Mongolian Universities	Ya.Dashdorj, U.Esbold (MUST)
Coffee/ Tea Break		
11:00-11:20	Some Results and Issues of ICT in Education Sector of Mongolia	D.Tsedevsuren, Ch.Purevdorj, D.Buyantogtoch, L.Choijoovaanchig (MSUE)
11:20-11:40	Monitoring the Achievement of Students as an Element of Quality Evaluation of Education	I.Batueva, (Buryad State University, Russia)
11:40-12:00	Implications of E-Learning standards	B.Munkhchimeg (MUST)
12:00-12:20	Laboratory activities on Real-time Control	A.Batmunkh (MUST)
12:20-12:40	Enterprise Architecture Development Strategy in Higher Education	B.Munkhbuyan (MUST)
Adoption of the final document		
Closing of the Parallel Session 3		

Presentations of the Conference Talk

All participants, we are kindly request you to send the presentations of the conference talk in the format MS Powerpoint 2007, to the Organizing Committee by e-mail tumur@must.edu.mn before the 4 July, 2011.

The official language of the Conference is English.

Website of the conference: <http://www.must.edu.mn/eicthe2011/>

Please contact for more Information and Cooperation:

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