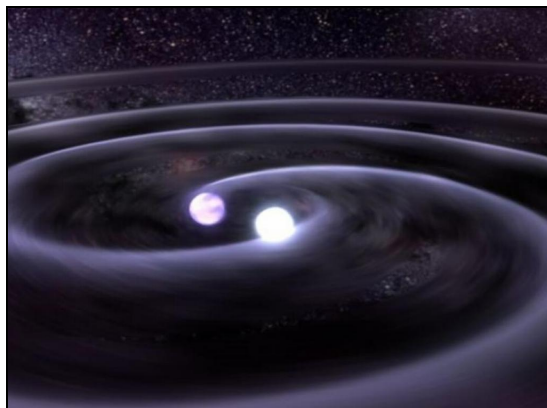
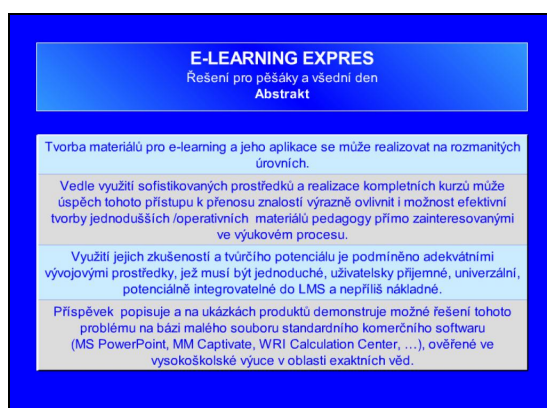
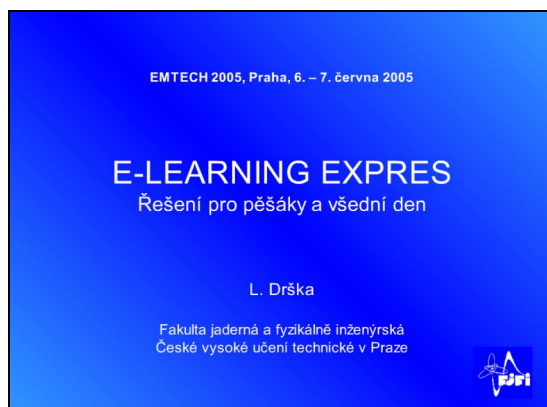
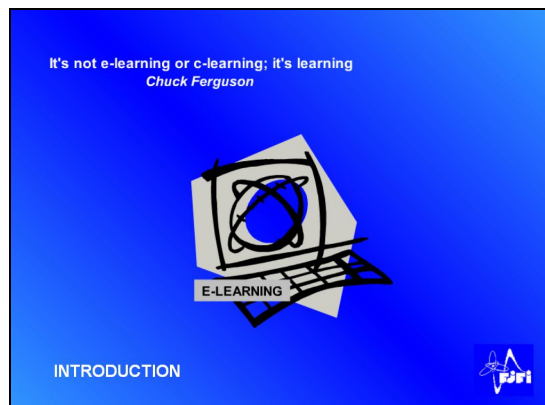
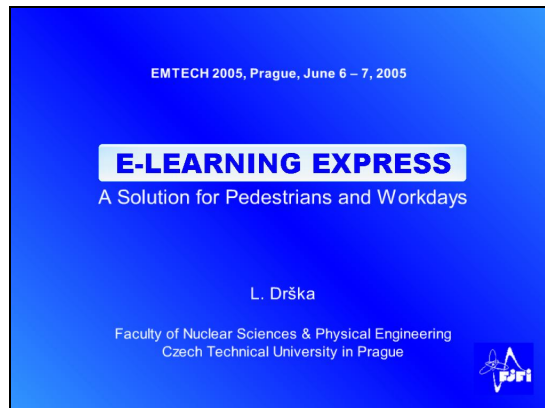
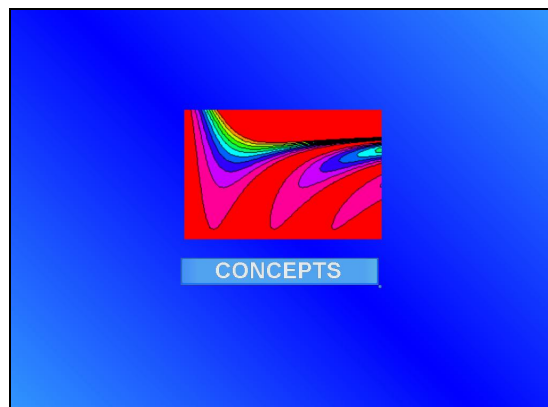
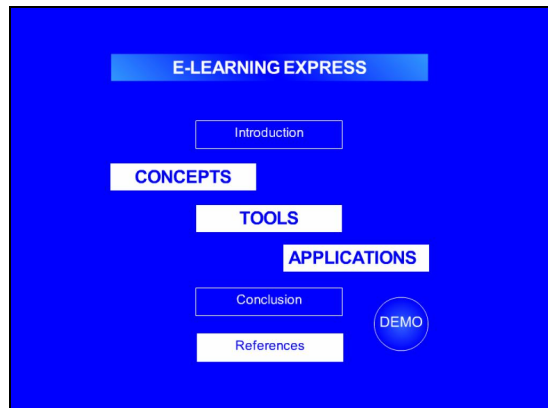


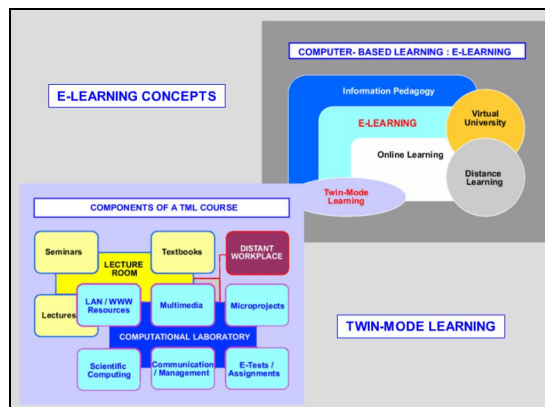
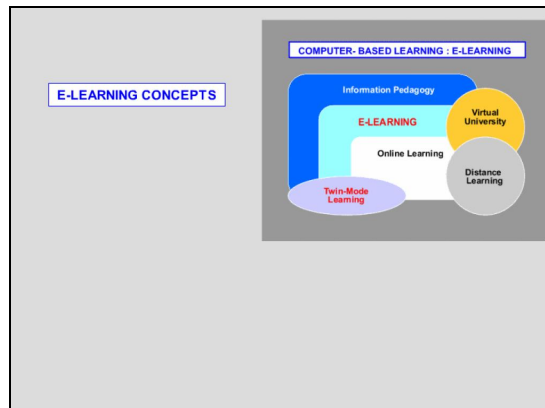
EMTECH 2005

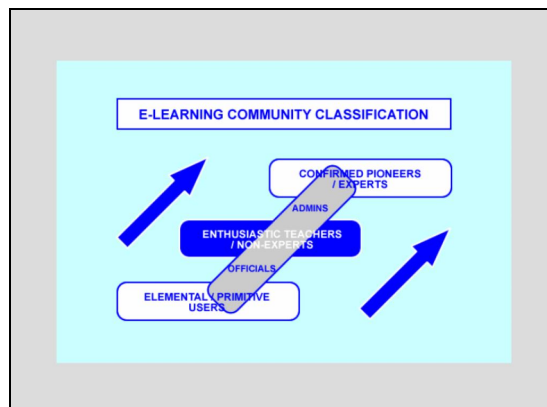
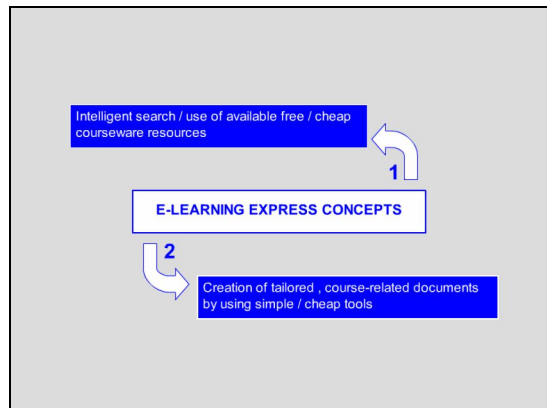


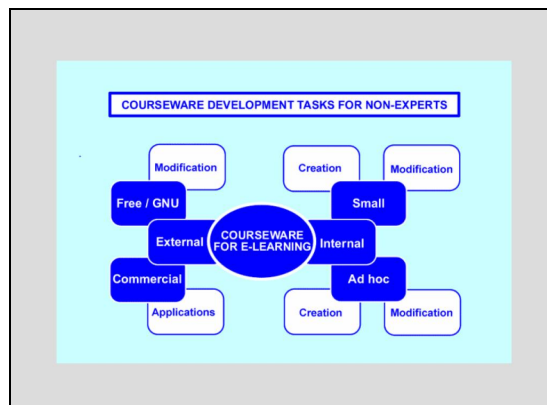
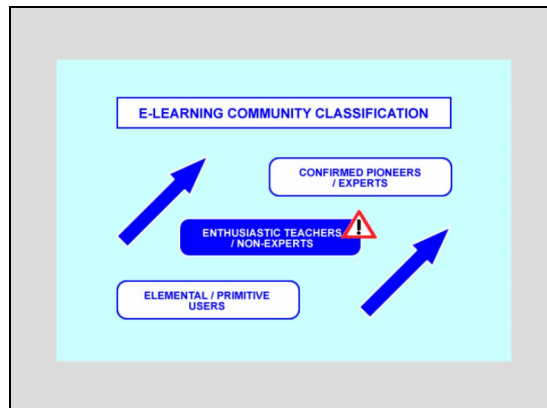


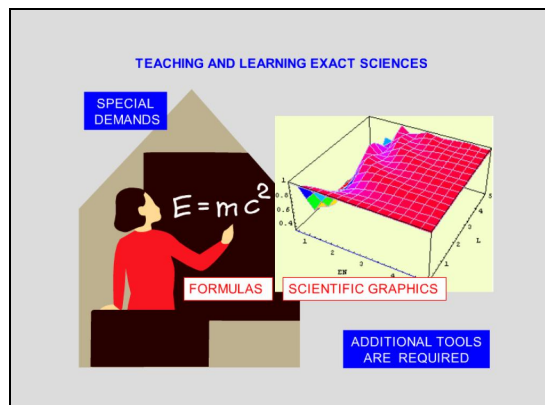
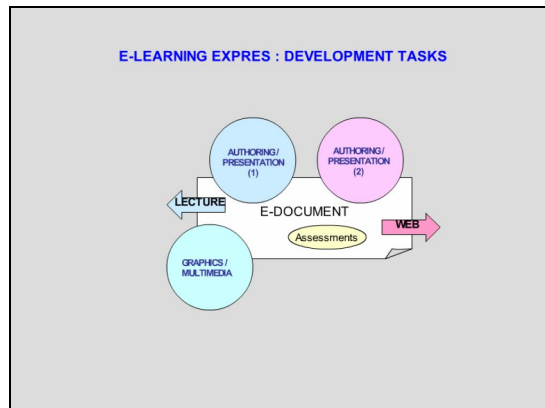


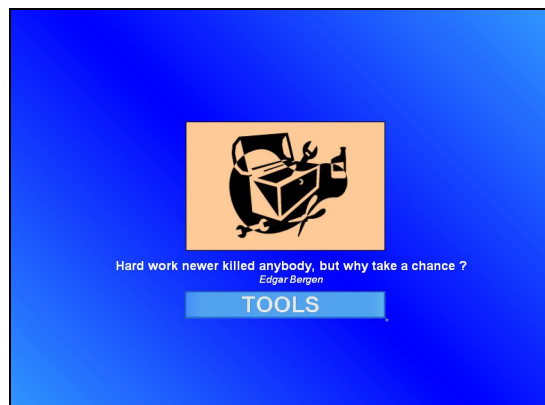
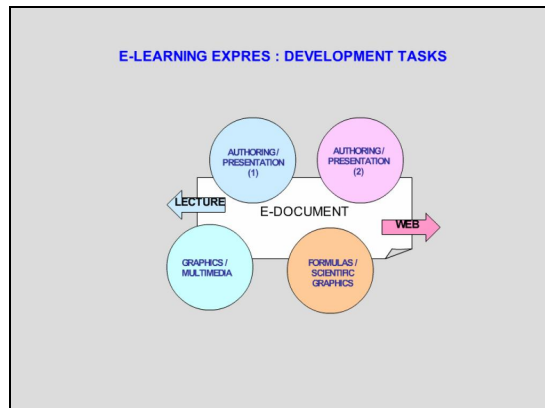












**TOP
7
DEMANDS**

EXPRESS DEVELOPMENT TOOLS

- SIMPLE / INCOMPLICATED
- TRULY USER-FRIENDLY
- SUFFICIENTLY POWERFUL
- GENERALLY APPLICABLE
- EDUCATION ORIENTED
- LMS-INTEGRABLE
- REASONABLY EXPENSIVE

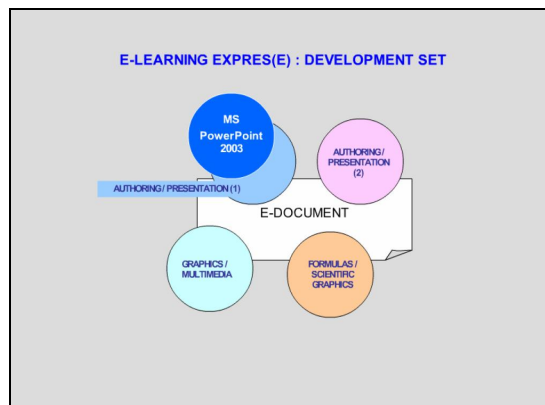
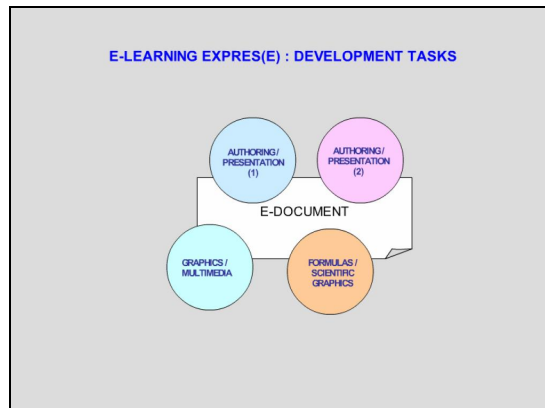
**3
ADDITIONAL
DEMANDS**

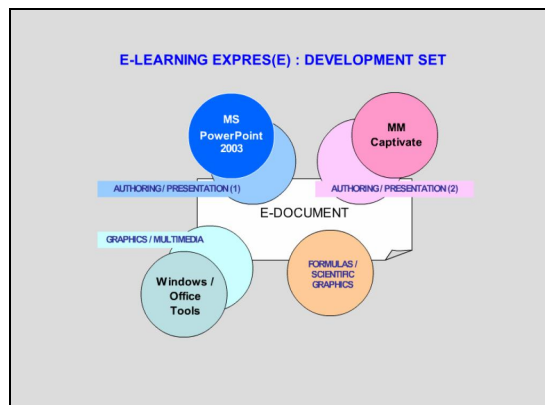
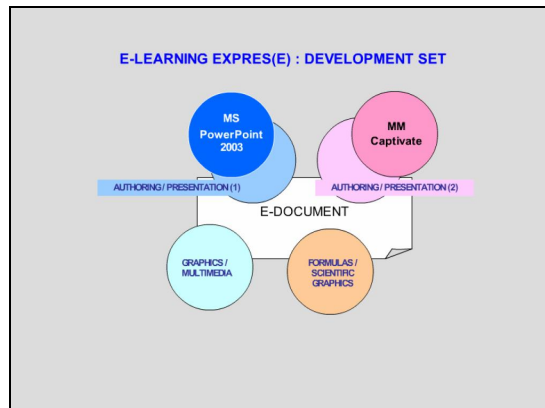
Cance to create
(simple) courseware,
which is

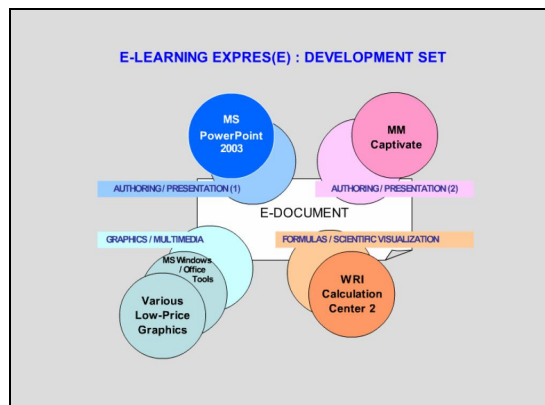
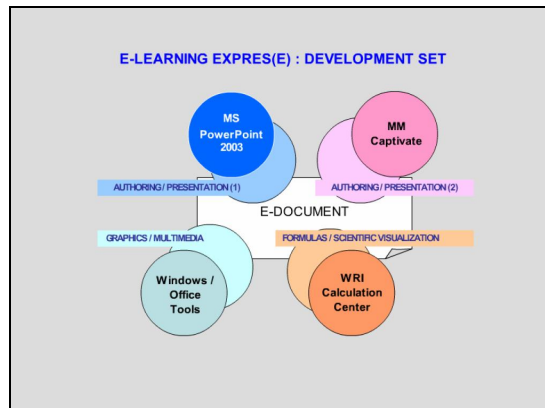
- > PEDAGOGICALLY
SOUND
- > SATISFACTORY
ATTRACTIVE
- > ESTETICALLY
ACCEPTABLE

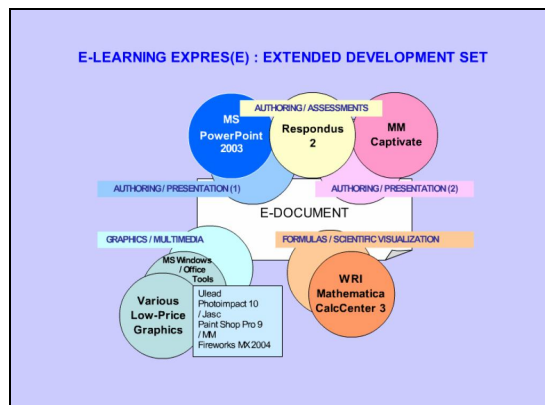
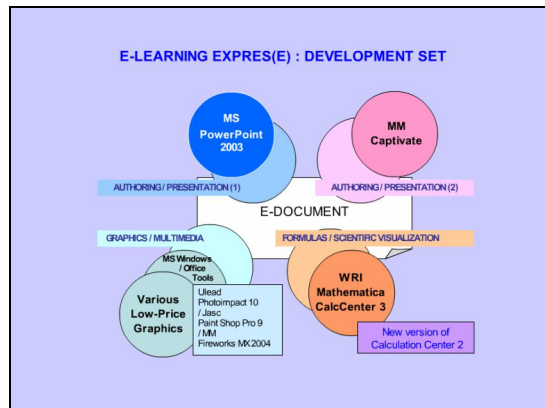
EXPRESS DEVELOPMENT TOOLS

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- SUFFICIENTLY POWERFUL
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- REASONABLY EXPENSIVE







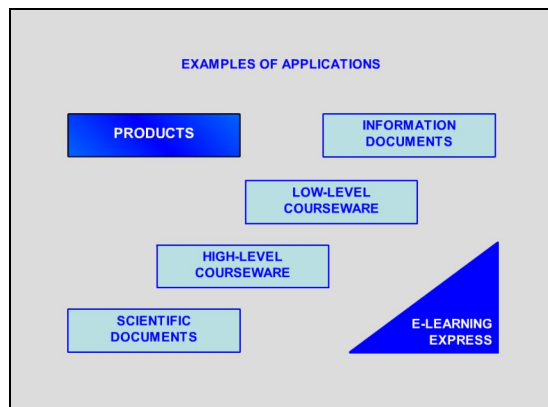
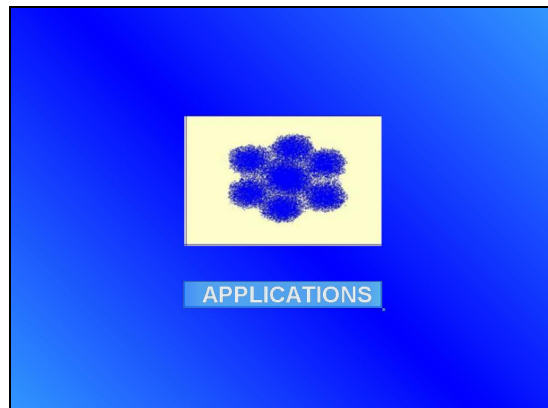


E-LEARNING EXPRES(E) : DEVELOPMENT SET	
TASKS	SOFTWARE TOOLS
AUTHORING / PRESENTATION (1)	Microsoft PowerPoint 2003
AUTHORING / PRESENTATION (2)	Macromedia Captivate
GRAPHICS / MULTIMEDIA	Ulead PhotoImpact 10 / Jasc Paint Shop Pro 9 / Macromedia Fireworks MX 2004
FORMULAS / SCIENTIFIC GRAPHICS	Wolfram Research Mathematica CalcCenter 3 (CalculationCenter 2)

E-LEARNING EXPRES(E) : DEVELOPMENT SET ADDENDUM	
TASKS	SOFTWARE TOOLS
ASSESSMENTS	Respondus Respondus 3
SOME ADDITIONAL FREE / CHEAP SOFTWARE GRAPHICS : GIMP 2.2 TESTING : Hot Potatoes 6 INTERACTION : Java Applets / Physlets	

E-LEARNING EXPRES(E) : DEVELOPMENT SET	
PowerPoint 2003	Generally accepted presentation package : Word processing, outlining, drawing, graphing, presentation management
Captivate	Versatile program for e-learning activities : Screen recording, interactive simulations, rich media support, various output formats, quizzing
PhotoImpact 10 Paint Shop Pro 9 Fireworks MX 2004	Low-budget, comfortable graphic software : Drawing, painting, animation, photos editing, web graphics
Mathematica CalcCenter 3 / (CalculationCenter 2)	Simple integrated computing system (ICS) : Formulas, symbolic computing, numeric computing, scientific graphics, web publication

E-LEARNING EXPRES(E) : DEVELOPMENT SET ADDENDUM	
Respondus 3	Powerful tool for creating /managing exams: Nine question types, equation editor, direct transfer to many LMS, used worldwide
SOME ADDITIONAL FREE / CHEAP SOFTWARE	
GIMP 2.2	Free (GNU) SW package for graphics: Reasonably sophisticated scientific graphics
Hot Potatoes 6	Free programs for creation assessments: Six question formats, some unusual ones
Java Applets / Physlets	Standard SW for interactive simulations : Web-based, rich offer of SW for instant using



EXAMPLES

INFORMATION DOCUMENTS

Drška L.:

Lasery, jádra, počítače. Pozvánka na přednášku.

In: Fyzikální týden FJFI 2005, Praha, 19. – 23. června 2005.
Lasers, Nuclei, Computers. Invitation to Attend the Lecture.
 In: Physics Week FNSPE 2005, Prague, June 19-23, 2005
<http://vega.fjfi.cvut.cz/docs/ftd05/>

Drška L.:

Information Physics / Informatická fyzika.

<http://vega.fjfi.cvut.cz/docs/infofyz05/>

EXAMPLES

LOW-LEVEL COURSEWARE

Drška L.:

Úvod do moderní fyziky. Letní semestr 2004 / 2005.

Introduction to Modern Physics. Summer Term 2004 / 2005
<http://vega.fjfi.cvut.cz/docs/uvmodfyz05/>

Drška L.:

Úvod do moderní fyziky: Lasery, plazma, jádra

Introduction to Modern Physics: Lasers, Plasmas, Nuclei
<http://vega.fjfi.cvut.cz/docs/uvmodfyz05/lpj/>

EXAMPLES

HIGH-LEVEL COURSEWARE

Drška L.:
**Program Athens:
 Course 'Concepts of Postmodern Physics'.**
<http://vega.fjfi.cvut.cz/docs/athens2005>

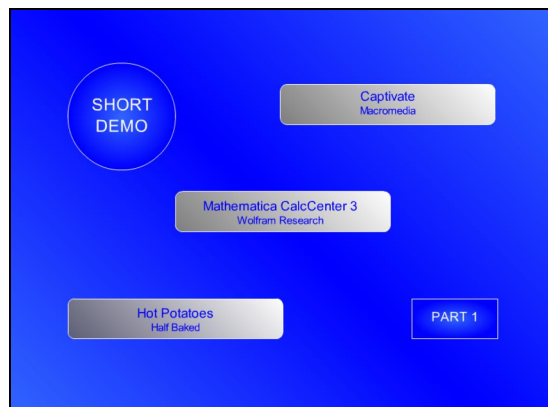
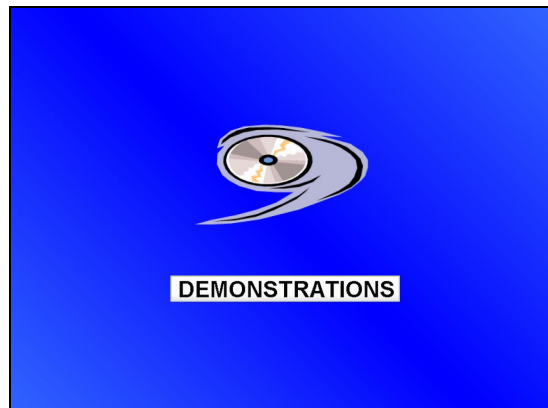
Drška L.:
Intensive Course Concepts of Postmodern Physics
 In: Workshop 2005, CTU, Prague, March 21 – 25, 2005.
http://vega.fjfi.cvut.cz/docs/w2005add/abstract/w05_drška_abs.pdf

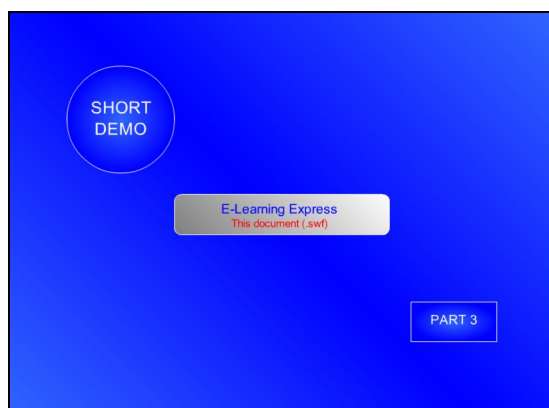
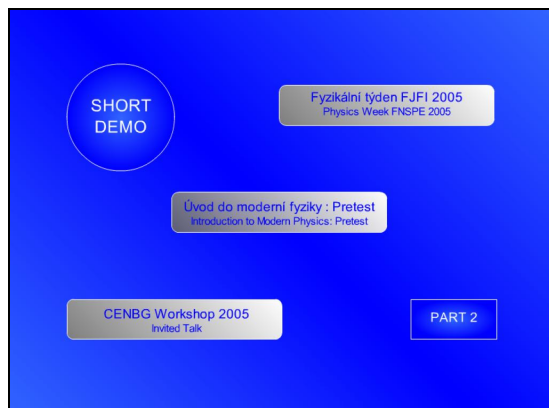
EXAMPLES

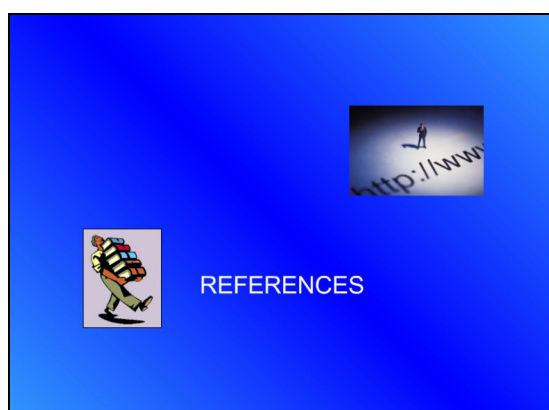
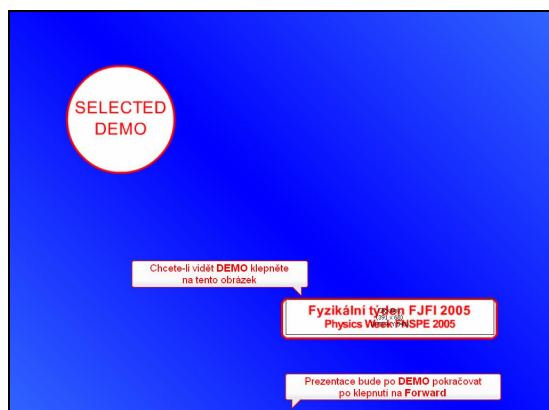
HIGH-LEVEL COURSEWARE

Drška L.:
**New Evaluation Software and Potential Projects in Laser
 Nucleonics at the FNSPE CTU. Invited Talk.**
 In.: Nuclear Excitation in Plasma: What's Next ? , CENBG, Bordeaux-
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**E-learning Express : A Solution for Pedestrians and Workdays / E-
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Drška L.:
Courseware Concepts and Development Technology for Exact Sciences. In: BELCOM 2005: Building Effective Learning Communities. Prague, February 21 – 22, 2005.
<http://vega.fjfi.cvut.cz/docs/belcom05/>

Microsoft :
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<http://office.microsoft.com/cs-cz/assistance/CH790018081029.aspx>

Macromedia :
Macromedia Captivate
<http://www.macromedia.com/software/captivate/>

Ulead :
Ulead PhotoImpact 10.
<http://www.ulead.com/pl/runme.htm>

Macromedia :
Macromedia Fireworks MX 2004.
<http://www.macromedia.com/software/fireworks/>

Wolfram Research Inc. :
CalculationCenter 2.
<http://www.wolfram.com/products/calculationcenter/>

Respondus :
Respondus 3.
<http://www.respondus.com/>

SELECTED REFERENCES (2)

Drška L. :
Lasery, jádra, počítače. Pozvánka na přednášku. In: Fyzikální týden FJFI 2005, Praha, 19. – 23. června 2005.
<http://vega.fjfi.cvut.cz/docs/ftd05/>

Drška L. :
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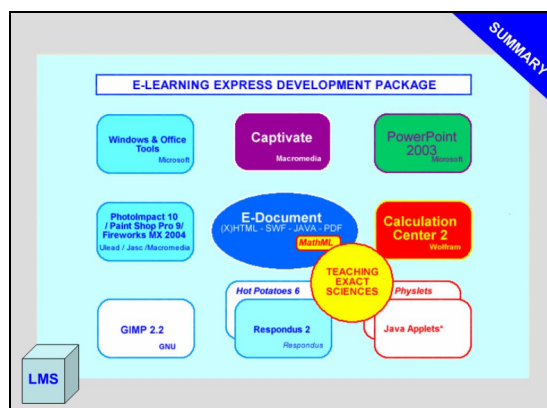
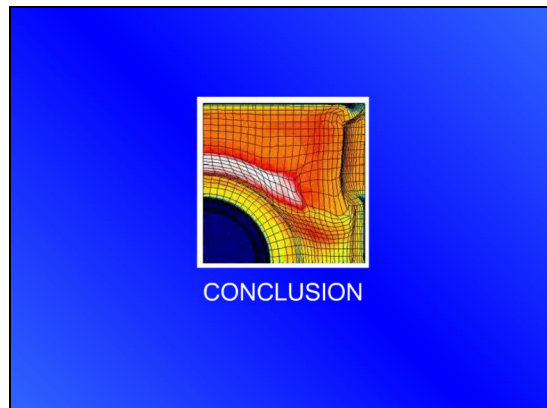
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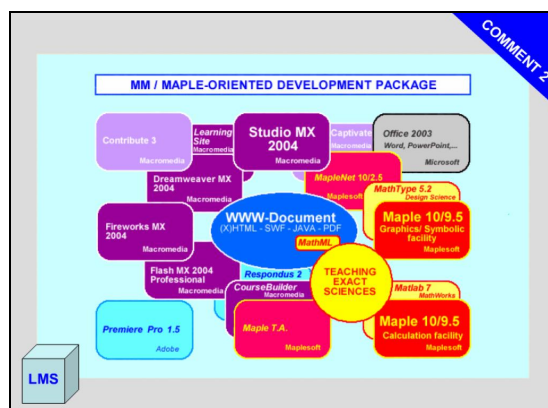
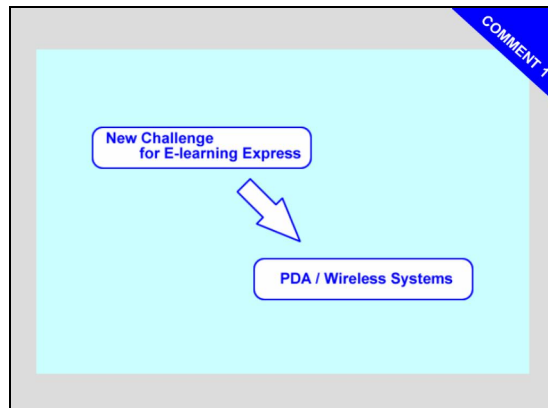
Drška L. :
Úvod do moderní fyziky : Lasery a plazma.
<http://vega.fjfi.cvut.cz/docs/uvmodfyz05/letp/>

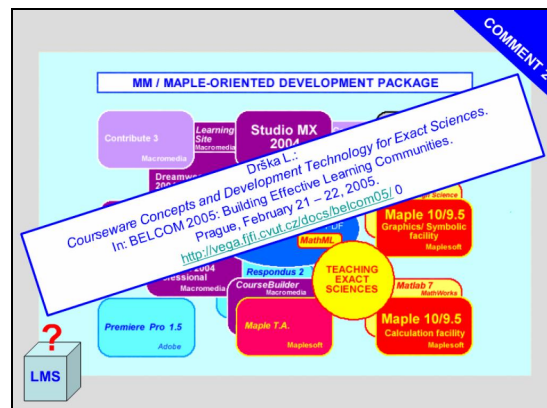
Drška L. :
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New Evaluation Software and Potential Projects in Laser Nucleonics at the FNSPE CTU. Invited Talk. In: Nuclear Excitation in Plasma/What's Next ?, Bordeaux-Gradignan, March 7 – 8, 2005. .
<http://vega.fjfi.cvut.cz/docs/centbg05/>







Thank you for your attention

Ladislav Drška
Department of Physical Electronics
Faculty of Nuclear Sciences & Physical Engineering
Czech Technical University in Prague
Trojanova 13, Prague 2, Czech Republic
drska@ant.u.fifi.cvut.cz



URL of the presentation
<http://vega.fjfi.cvut.cz/docs/emtech05/>

