ICT Summit 2012
Information & Communication Technology
March 2nd

Defining the Next Decade
Creative Technology

Keynote Speaker
Douglas Trumbull
Designer
Inventor
Filmmaker
Entrepreneur
Dear Participants,

Welcome!
To the Information & Communication Technology Summit 2012.

Forward thinking and innovative ideas are called for. We want to help create an academic environment that not only addresses the needs of our students now, but considers new ways of collaboration and envisioning that are open to us.

We cannot build a better tomorrow alone. Through this ICT Summit, we have the opportunity to come together and meet the challenge to visualize and plan how we can use current developments in technology and plan for technical advances that react and respond to our needs, based on pedagogy and content.

Collaboratively we, as a community, can place ourselves to be a forerunner of new ideas and technologies rather than simply following or matching the standards of the day.

Thank you for attending the ICT Summit 2012.

Regards,

Patricia Galvis-Assmus
## Schedule

### AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Coffee &amp; Digital Inferno review: Students, faculty &amp; researchers share current and future IT related projects</td>
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<tr>
<td>9:00</td>
<td>Welcome - Patricia Galvis Assmus, IT Program Director</td>
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<td>9:15</td>
<td>Overview and Intro. to the Day: by Carol Barr, Vice Provost Undergraduate &amp; Continuing Education</td>
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<tr>
<td>9:30</td>
<td>Digital Inferno</td>
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<td>9:50</td>
<td>Organize Working Groups</td>
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<td>10:00</td>
<td>Working Session - Discussions Groups</td>
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<td>10:30</td>
<td>Discussion Results</td>
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<tr>
<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:10</td>
<td>Open Education Initiative (OEI): Presentation and announcement of recipients.</td>
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<tr>
<td>11:15</td>
<td>OEI Library Support Team</td>
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<td>11:35</td>
<td>New Initiatives on Campus</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
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### PM

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>1:00</td>
<td>Copyright and Faculty Rights Webinar (Dukes Room): The challenges and solutions of applying copyright law in your classrooms, research and scholarly publications.</td>
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<tr>
<td>1:00</td>
<td>Digital Inferno (Ballroom): Defining the Next Decade Discussion</td>
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<tr>
<td>2:15</td>
<td>Overview and introduction of Keynote Speaker</td>
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<td>2:30</td>
<td>Keynote Speaker: Douglas Trumbull</td>
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<tr>
<td>3:30</td>
<td>Q&amp;A: Douglas Trumbull</td>
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<tr>
<td>4:00</td>
<td>Reception for attendees</td>
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## Your Role

- Participate in working groups to discuss & define the next decade.
- Explore current & new technology in pedagogy and research.
- Enjoy keynote and guest speakers with the 5 College community.
- Celebrate the anniversary of the interdisciplinary IT program.
Visionary filmmaker, innovator & entrepreneur, Douglas Trumbull has enjoyed a long and prestigious technological and creative career in filmmaking. Trumbull’s early career included pioneering work in 1968 as one of four effects supervisors in *2001: A Space Odyssey*. He subsequently influenced movie goers around the world with stunning visual effects in films such as *The Andromeda Strain*, *Close Encounters of the Third Kind*, *Star Trek: The Motion Picture*, and *Blade Runner*. In addition, Trumbull directed the feature films *Silent Running* and *Brainstorm*. He has directed numerous Expo and special venue films, videos and attractions and has been awarded twenty patents, including one for the first entertainment simulator ride (*Back to the Future – The Ride* at Universal Studios) and another for the Academy Award-winning Showscan® process for high speed 70 mm cinematography. His most recent simulation ride development effort was the *Secrets of the Luxor Pyramid* for Luxor, Las Vegas.

Trumbull has been the recipient of the American Society of Cinematographer’s Lifetime Achievement Award, and has recently been selected by his peers as an honorary member of the Visual Effects Society (only the fifth to receive this distinction).
Douglas Trumbull’s endeavor, the Entertainment Design Workshop (EDW), a privately-owned company was founded in 1997 as a leading-edge creative design firm specializing in the development of advanced integrated systems for high-resolution digital production utilizing virtual sets. EDW completed work on a high profile virtual set television pilot for Disney Studios. For the pilot, EDW created a unique virtual world based upon the famous Winnie the Pooh children’s book, populated it with puppeted versions of the Pooh characters, and produced it employing virtual sets, motion control cameras, and real time compositing techniques. Subsequent to the pilot, 52 episodes of the endearing classic were produced, titled THE BOOK OF POOH.

In 2000 Trumbull sold his facility to the Visionaries Institute of Suffolk University, where they provide the world’s only graduate program in philanthropic media. Trumbull recently formed Trumbull
Ventures LLC to apply digital technologies to productions he will produce and direct. Trumbull is presently developing the next generation of virtual set technology, in preparation for feature film quality, IMAX, IMAX 3D, HDTV, and other media such as computer games.

In December 2011 Trumbull received the Nicola Tesla Award from the International Press Academy’s Satellite Awards, and he is receiving the George Melies Award in 2012 from the Visual Effects Society as well as the Gordon E. Sawyer Academy Award from the Academy of Motion Picture Arts and Sciences.

Find out more at: www.douglas.trumbull.com
Films
2001: A Space Odyssey
Blade Runner
Brainstorm
Close Encounters Of The Third Kind
Secrets Of The Luxor Pyramid - Trilogy
Silent Running
Star Trek - The Motion Picture
The Andromeda Strain
To The Moon And Beyond

Patents
360 Degree Projection / Photography
Capsule Simulator
Compact Simulator
Frame Rate Conversion
High Frequency Injection
Multiple Row Simulator Ride
Orthogonal Motion Base
Retinal Display System
Robot Controller
Showscan
Simulator Ride
Virtual Set System
Zero Gravity Boom

Businesses
Berkshire Motion Picture
Entertainment Design Workshop
Film Research Workshop
Future General Corporation
Magnetar Productions LLC
The Trumbull Company
Trumbull Productions Incorporated
Trumbull Ventures LLC
Robot Controller
Showscan
Simulator Ride
Virtual Set System
Zero Gravity Boom

Media Technology
65mm Film
IMAX
IMAX 3D
Showscan
Vistavision

Entrepreneurial Invention
A BP Spill prototype for a solution to the Gulf Oil Crisis
Digital Inferno

The Digital Inferno session will allow IT practitioners from around the Pioneer Valley to give a brief introduction to their projects.

Abacus
Researcher: Patricia Galvis-Assmus
Center for Research in Art & Technology
Department of Art, Architecture & Art History, UMass Amherst
Real-time collaborative video editing via mobile devices.

Computer Competency Certification
Presenter: Birdie Champ
Researcher: IT Program
Information Technology Program
Provost Office, UMass Amherst
An initiative to equip students with computing fundamentals ranging from rebuilding a computer to copyright issues. URL: cccumass.us

Construct an Arthropod
Matthew Mattingly
Center for Educational Software Development, UMass Amherst
Interactive web quiz/game. Select virtual body parts, attach, get feedback on your knowledge of bug morphology.
URL: www.cesd.umass.edu/arthropods/

Digital Close Reading: TEI for Undergraduates
Katherine Singer
Department of English,
Mt. Holyoke College
TEI digital edition of Melesina Trench’s “Laura’s Dream; or the Moonlanders,” perhaps the first science fiction text written by a woman.

Discover Text
Stuart Shulman
Department of Pol Sci, UMass Amherst
DiscoverText is a commercial software solution developed at UMass Amherst for collaborative, easy-to-use text analytics. This project will demonstrate how this software empowers university researchers, government agencies, and large Fortune 100 corporations to organize and extract insight from unstructured text.

Holyoke Hgh Performance Computing Center
Dave Hart
CESD*, UMass Amherst
Collaboration with teachers in Holyoke and Springfield Community College to take advantage of the new high performance computing center being built in Holyoke, MA.
Digital Inferno

**Human Patient Simulation**
Joan Roche, Karen Plotkin, Erin Lamoureux, Clare Lamontagne, Elizabeth Henneman, and Helene Cunningham  
*School of Nursing, UMass Amherst*  
Using Human Patient Simulation Technology to Educate Nursing Students to Address Patient Safety  
URL: https://udrive.oit.umass.edu/simlab/Faculty_Simulation_Information/Faculty_Simulation_Training_Information/Sim_Videos_To_Preview/Student_FacultyIntro_SimEnvironmentFinalWeb.mp4

**Interactive Maps/ Timelines**
Matthew Mattingly  
*CESD*, UMass Amherst  
Witchcraft history. Also has other projects using similar tools, e.g Springfield Armory history, Florence (MA) walking tours.

**Learning Lab for Resiliency**
Don Blair & Stephanie Jo Kent  
*Department of Physics, UMass Amherst*  
Discourse tracking and analysis tool for real time textual data with a prototype visualization of the content of Occupy Wall Street tweets, associating topic frequency with bubble size.  
URL: http://donblair.org/simple6/

**Mapping, photo, story, and data mashups**
Matthew Mattingly  
*CESD*, UMass Amherst  
Two related projects: Water quality on Connecticut River river; Virtual tours of the Connecticut River.  
URL: www.cesd.umass.edu/twi/TWI_Projects/Water_Quality_Monitoring/index.html

**Pompeii Quadriporticus Project and Pompeiana**
Eric Poehler  
*Department of Classics, UMass Amherst*  
Cutting edge technologies to definitive study of one of the largest and most important monumental buildings in Pompeii.  
URL: www.umass.edu/classics/PQP.htm & beta.pompeiana.org/

**SeeTrees**
Matthew Mattingly  
*CESD*, UMass Amherst  
Help students in Botany and related fields learn how to observe and identify plants in the field by providing an online environment where they can record observations, access information and interact with each other and their instructors. Using complex interactive web applications with minimal coding.  
www.cesd.umass.edu
**Telepractice Research Team (u-TRT)**

Mary Andrianopoulas, Michelle Boisvert and Nerissa Hall

*Department of Communications Disorders, UMass Amherst*

A multi-faceted clinical utility of telepractice for a range of speech-language pathology services. u-TRT is strategically & effectively using video conferencing technology to provide face-to-face, interactive therapeutic services to students with communication disabilities.

URL: www.umass.edu/doegrants/Info_Packet_CBC.pdf

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**TEI and Tennyson**

Elizabeth Meadows

*Department of English, Mt. Holyoke College*

TEI as part of a semester-long project on lyric and narrative voice in Alfred Tennyson’s long poem, *The Princess: A Medley.*
Copyright and Faculty Rights Webinar (Dukes Room)

How copyright and fair use laws apply to teaching isn’t always clear. The increasing ease of copying and distribution of digital materials raises the stakes even more. Faculty often don’t have access to the resources and support they need to sort those challenges out. Join us for the first session of a two-part webcast by Academic Impressions to understand how to apply copyright laws more appropriately in your own works and publications. The Webcast portion of this event will be followed by group discussion (~30 min.) amongst attendees, including a few copyright specialists from campus.

*Registration Required

UMass Amherst Open Education Initiative

The high cost of commercial print textbooks is a major concern for both students and their parents. In response, the UMass Amherst Provost Office and the University Libraries launched a faculty incentive program in the Spring of 2011—the Open Education Initiative—to encourage the use of existing technology and information resources to support our students’ learning. This effort supports faculty who are interested in pursuing non-traditional educational resources as an alternative to the traditional textbook. The Open Education Initiative incentivizes the use of textbook alternatives through grants to its faculty. Using any combination of Open Educational Resources and proprietary Library resources, this initiative aims to bring about new ways of conceptualizing higher education tools, hopefully saving undergraduate students hundreds of dollars each year.

Open Education Week

Open Education Week (March 5th-10th, 2012) is a global event that seeks to raise awareness about the benefits of free and open sharing in education, especially Open Educational Resources (OERs). This week will feature projects and resources as well as more general information about the OER movement.
The Information Technology Program, housed within the Provost Office is charged with nurturing Information Technology Across the Disciplines. The IT Program supports collaboration among the schools and colleges and maintains the Campus-wide IT Minor which is available to all UMass Amherst students.

**Contact**

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**E-mail:** itprogram@provost.umass.edu

**UMass Amherst**  
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**UMass IT Program Faculty**

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Gal, Graham  
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Gao, Lixin  
Gilotoh, Copper  
Gupta, Bhaswar  
Hanson, Jarice  
Hess, Traci  
Jensen, David  
Kapadia, Nikunj  
Katsh, Ethan  
Labrecque, Lauren  
Learned-Miller, Erik  
Lehnert, Wendy  
McCallum, Andrew  
Milne, George  
Moll, Robert  
Nawalkha, Sanjay  
Newton, Richard  
Olsen, Jon

**UMass IT Curriculum Committee**

Adrion, Rick  
Levine, Brian  
Moll, Robert  
Olsen, Jon  
Roche, BJ  
Schoen, Jerry  
Schweik, Charles  
Solberg, Janine  
Soules, Baird  
Stoa, Nikki  
Todd, David  
Toomey, David  
Zheng, Kaimei

**Visit the UMass Amherst IT Program Website for more details.**

www.umass.edu/itprogram
Special Thanks

To: Mr. Douglas Trumbull and Mrs. Julia Hobart Trumbull

UMass Amherst Provost: James V. Starvos
UMass Amherst Vice Provost: Carol Barr
UMass Amherst Deans:
  College of Engineering - Djaferis, Dr. Theodore
  College of Humanities and Fine Arts - Hayes, Julie
  College of Natural Sciences - Goodwin, Steve
  College of Social and Behavioral Sciences - Feldman, Robert
  Commonwealth Honors College - Clarkson, Priscilla
  Isenberg School of Management - Fuller, Mark
  School of Education - McCormick, Christine
  School of Nursing - Dr. Stephen J. Cavanagh
  School of Public Health and Health Sciences - Aelion, C. Marjorie

5 College Inc.
  Neal Abraham, Executive Director
  Maria Toyofuku, Director of IT

ICT Planning Committee
  Billings, Marilyn
      UMass Amherst Library
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      Mt. Holyoke College
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  Schoen, Jerry
      Mass. Water Watch
      Partnership Director
  Stoia, Nikki
      Associate Dean,
      CHFA Professor, and Music Dept.
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      5 Colleges Inc, Director of IT

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  Andrianopoulas, Mary
  Blair, Don
  Champ, Birdie
  Cunningham, Helene
  Hart, Dave
  Henneman, Elizabeth
  Kent, Stephanie Jo
  Lamontagne, Clare
  Lamoureux, Erin
  Mattingly, Matthew
  Meadows, Elizabeth
  Moll, Robbie
  Plotkin, Karen
  Poehler, Eric
  Roche, Joan
  Shulman, Stuart
  Singer, Katherine

y Mil Gracias a...
  Dennis Spencer