

Donald Greenberg

University Activities

- Computing & Information Science Council
- Provost's Committee on Digital Arts & Culture
- Cornell University Center for Advanced Computing (CAC) Advisory Committee
- Graduate Fields
 - Architecture Science, Computer Science, Computing & Information Science, Structural Engineering, Johnson Graduate School of Management
- Student Theses:
 - Brendan Holt, Master's thesis Cornell University – Fall 2008 (in progress)
 - David Kaplan, Master's thesis Cornell University – Fall 2008 (in progress)
 - Todd Harvey, Master's thesis Cornell University – Spring 2009 (in progress)

Research Activities

- National Science Foundation, ITR/AP – “Beyond Polygons & Pixels: New Paradigms for Real-Time, Physically-Based Rendering” 2001 -2008 (approx. \$2.75M)
- Autodesk – (software, approximately \$100^k)
- Pixar – Animation Research (\$15^k)
- DreamWorks – Animation Research
- Intel – Microsoft – Dell – Collaboration for Cluster Computing ($\approx$ \$425,000)
- Cornell Ornithology Lab – Physically-Based Simulation of Avian Flight (\$50^k)

Professional Activities:

- Chyron Corporation – Board of Directors
- Interactive Data Corporation – Board of Directors
- Pixar, Dreamworks, Microsoft, Cleveland Clinic – Consulting

Publications:

- Vikash Goel, Roy Greenberg, Donald Greenberg. “Automated Vascular Geometric Analysis of Aortic Aneurysms,” to be published in IEEE Computer Graphics and Applications May/June or July/August 2008.
- Vikash Ravi Goel, MS, Roy K. Greenberg, MD, Donald P. Greenberg, PhD. “Mathematical analysis of DICOM CT datasets: Can endograft sizing be automated for complex anatomy? Journal of Vascular Surgery, to be published.
- Talk given at the Annual Meeting for Vascular Surgery, Baltimore MD, June 2007.
- The Quest for the Ivory-billed Woodpecker Chronicle of Higher Ed (in progress)
- A Model-based Approach to Access the Documentation of the Ivory-billed Woodpecker, Science (in progress)

Film:

- The Lord God Bird, DC Environmental Film Festival 2008, Directed by: George Butler, National Geographic Society, March 14, 2008.

Lectures:

- June 1, 2007 – “Ivory-Billed Woodpecker, Is it real?” Lab of Ornithology Board, Cornell University, Lab of O’s (Trustees/Directors?)
- June 7, 2007 – “Mathematical Analysis of DICOM CT Datasets for Fenestrated and Branched Endografts: Can It All Be Automated?” 2007 Vascular Annual Meeting, Baltimore, MD.
- June 8, 2007 – “Universities in the 21st Century,” 1957 Class Reunion Panel (Donald P. Greenberg, Director Program of Computer Graphics/ Frank H.T. Rhodes, President Emeritus / Ron Ehrenberg, Director of Cornell High Education Research Institute), Statler Auditorium, Cornell University
- June 18, 2007 – Beginning With Children Charter School Workshop
- August 1, 2007 – “Architecture from the Ground-Up – How has the design process changed? How the design process has not changed.” Cornell Adult University.
- September 14, 2007 – “Plans and Potential Collaborations,” Cornell Weill Medical College, Center for Advanced Computing, & Program of Computer Graphics, Cornell Weill Medical College, New York, NY.
- November 26, 2007 – AEM 121 Lecture “Boundaries in an Exponentially Changing Digital World,” Call Auditorium, Cornell University