





Throughout the year, the International Resources program facilitates worldwide collaboration in the ACM SIGGRAPH community. Because of our international connections and close relationship to the international ACM SIGGRAPH Chapters, we are often able to connect people and resources across the world. Please contact us if you are interested in connecting with ACM SIGGRAPH Chapters and/or professionals in the field of graphics and interactive techniques.

For SIGGRAPH2012 conference, we have prepared this document, which highlights all conference submissions and presentations from the United States and Canada. If you have questions about this list, please contact our 'USA + Canada' committee members: Vicky Fowler [vicky.fowler1@gmail.com] Torrey Nommesen [torrey@nommesen.com]

Art Gallery

Canada Biopoiesis Carlos Castellanos (DPrime Research)

The Heartbeats Watch Julie Legault (V2_ Institute for the Unstable Media)

USA Saturation Daniel Barry (University at Buffalo) Adam Laskowitz (University at Buffalo)

Art Papers

USA Translation + Pendaphonics = Movement Modulated Media Byron Lahey (Arizona State University) Winslow Burleson (Arizona State University) Elizabeth Streb (The STREB Extreme Action Company)

Awards

USA

Greg Turk (Georgia Institute of Technology)

Karen Liu (Georgia Institute of Technology)

Jean-Pierre Hébert (University of California, Santa Barbara)

David Kasik (The Boeing Company)

Birds of a Feather

Canada Deliberate Practice Makes Perfect - 10,000 Hours to Expertise Terry Posthumus

Teaching Procedural Workflows Bill Dwelly

Animation: From Visual Development to Art Direction Mario Pochat Vancouver Animation School

USA

Studio Views of Demo Reels Art Durinski

Teaching OpenGL in a Post-Deprecation World Khronos Institute for Training and Education (KITE) for Educators Mike Bailey

Exploring Software Delivery and Pipeline Choices for Students in the Cloud John Reinhard

ASIFA-Hollywood Animation Educators Forum Dori Littell-Herrick

Animation and 21st Century Skills The ACME Network

Undergraduate Research Alliance William J. Joel

Teaching Artists to Program With Algorithmic Art Genevieve Orr

Hacking Objects: An Exploration in Rule Breaking Assemble, a community space for arts + technology

LA ACM SIGGRAPH Chapter Social Leonard Daly

Collaboration Between Education and Industry: The New Model Vince De Quattro

San Francisco ACM SIGGRAPH Meeting Tereza Flaxman

Purdue University Birds of a Feather Ray Hassan Purdue University

University of Pennsylvania and ETH Zürich Reception Norman Badler

Chapters

Canada Vancouver ACM SIGGRAPH

Kitchener/Waterloo ACM SIGGRAPH

Montreal ACM SIGGRAPH

USA Cascade ACM SIGGRAPH

Fort Lauderdale ACM SIGGRAPH

Los Angeles ACM SIGGRAPH

Minneapolis/St Paul ACM SIGGRAPH

NYC ACM SIGGRAPH

Orlando ACM SIGGRAPH

San Diego ACM SIGGRAPH

San Francisco ACM SIGGRAPH

Silicon Valley ACM SIGGRAPH

Drexel University ACM SIGGRAPH

Texas A&M University ACM SIGGRAPH

Computer Animation Festival (CAF) Canada

"Little Talks" - Of Monsters and Men WeWereMonkeys

USA

Aquatic Bloom Subject Code Q80-203 School of Visual Arts

Karma School of Visual Arts

Encounter School of Visual Arts

Ramus School of Visual Arts

Void School of Visual Arts

Brother School of Visual Arts

Getaway School of Visual Arts

Dynamic Earth Visualization Excerpt Evolution of the Moon NASA

La Lune Et Le Coq Rochester Institute of Technology

DOTA 2 Teaser Valve

The Girl with the Dragon Tattoo - 2011 Prey 2 Blur Studio, Inc. Tour of the Moon Universities Space Research Association

Restless Visual FX Coke: "Spirit of the Euro" Grimm Visual FX Bent Image Lab

Dynamic Earth: "Hurricane Katrina" NCSA, University of Illinois

Ruin OddBall Animation

Fertilization Nucleus Medical Media

My Little Friend Ringling College of Art and Design

The Colors of Evil Ringling College of Art and Design

Bon Iver "We Are Music " Moving Picture Company

Estefan Brigham Young University

Dilated Pixels Episodic Television VFX 2011-12 Dilated Pixels

How To Eat Your Apple Pixar Animation Studios

CAF Production Sessions

USA Pixomondo Presents Hugo Ben Grossman (Pixomondo)

Assembling the VFX for Marvel's "The Avengers" Victoria Alonso (Marvel Studios)

Building Disney•Pixar's "Brave" Colin Thompson (Disney-Pixar)

Digital Domain Presents "Making the Steel Real" Erik Nash (Digital Domain)

LAIKA's ParaNorman Brian Van't Hul (LAIKA)

High-Frame-Rate Cinema Paul Salvini (Christie Digital Systems USA, Inc.)

Industrial Light & Magic Presents: The Visual Effects of "Battleship" Grady Cofer (Industrial Light and Magic)

Balancing Act: Life as a Visual Effects Supervisor at DreamWorks Animation Ken Bielenberg (Dreamworks Animation)

The Art and Science Behind Walt Disney Animation Studios' "Paperman" John Kahrs (Walt Disney Animation Studios)

Courses Canada Practical Physically-Based Shading in Film and Game Production Stephen McAuley (Ubisoft Montréal)

USA

Fundamentals Seminar Mike Bailey (Oregon State University)

Computational Displays Gordon Wetzstein (MIT Media Lab)

Principles of Animation Physics Alejandro Garcia (San Jose State University)

State-of-the-Art Stereoscopic Visual Effects Jonathan Karafin (Digital Domain)

The Invisible Art Craig Barron (Matte World Digital)

Computational Aesthetic Evaluation Philip Galanter (Texas A&M University)

Introduction to Modern OpenGL Edward Angel (University of New Mexico)

Virtual Texturing in Software and Hardware Beyond Programmable Shading Juraj Obert (AMD)

Cinematic Color Jeremy Selan (Sony Pictures Imageworks)

Character Rigging and Creature Wrangling Tim McLaughlin (Texas A&M University)

FEM Simulation of 3D Deformable Solids Eftychios Sifakis (University of Wisconsin-Madison)

GPU Shaders for OpenGL 4.x Mike Bailey (Oregon State University)

Advanced (Quasi) Monte Carlo Methods for Image Synthesis Alexander Keller (NVIDIA ARC)

Graphics Programming for the Web Pushkar Joshi (Motorola Mobility)

Emerging Technologies

Canada HDRchitecture Raymond Lo (University of Toronto)

USA Combiform Edmond Yee (University of Southern California)

Interactive Light-Field Painting James Tompkin (Disney Research, Boston)

Mood Meter Javier Hernandez (MIT Media Lab)

REVEL Olivier Bau (Disney Research, Pittsburgh)

Tavola Yue Fei (Panasonic Silicon Valley Laboratory)

Tensor Displays Matthew Hirsch (MIT Media Lab)

Exhibitors

Canada 3D3 Solutions Autodesk, Inc. British Columbia Film Commission cebas Visual Technology Inc. Christie Digital Systems Montreal ACM SIGGRAPH NorPix Inc Ontario Canada Delegation Peer 1 Hosting Point Grey Research, Inc. Ross Video Limited Scalar Decisions Toon Boom Animation Inc. VanArts Vancouver Animation Inc. Vancouver Film School

USA

3D Systems 3Dconnexion, Inc. 3dMD **3DVIA** Academy of Art University Addison-Wesley/Pearson Advanced Micro Devices, Inc. American Express OPEN Andersson Technologies LLC Animation Magazine Inc. AnimSchool ASC-American Cinematographer Avere Systems Axceleon Inc. BOXX Technologies, Inc. Cogswell College Computer Graphics World CRC Press/AK Peters CyberGlove Systems DAZ 3D DePaul University College of Computing and Digital Media DigiPen Institute of Technology **Digital Domain** EDGE 3 Technologies, Inc. Elphel, Inc. EMC Isilon Epson America Inc. Esri Focal Press/Morgan Kaufmann Fusion-io Hall-Erickson, Inc. Hitachi Data Systems IATSE **IEEE Computer Society** Infinite Z IntegrityWare, Inc. Intel Corporation John Wiley & Sons, Inc. JourneyEd Just Cause Entertainment Khronos Group Lightcraft Technology Luxion, Inc. Luxology, LLC MAXON Computer Microway, Inc. Motion Analysis Corporation

Natural Point **NEC Display Solutions** NewTek, Inc. NextEngine Inc. **NVIDIA Corporation** Objet Geometries Inc. OC3 Entertainment OPTIS SAS Organic Motion, Inc. PipelineFx, LLC Pixar Animation Studios Pixologic, Inc. **PNY Technologies** Pond5, Inc. Prime Focus World Purdue University Rate a Reel, LLC Ringling College of Art and Design Savannah College of Art and Design Scanline VFX Shapeways Shotgun Software, Inc. Side Effects Software Smith Micro Software SoftEther Corporation SpeedTree Springer Steinbichler Vision Systems, Inc. Stratasys 3D Printers & Production Systems Studica, Inc. Tandent Vision Science, Inc. The University of the Arts The3DShop.com Thinkbox Software Inc. Tobii Technology Inc. Topaz Labs Trinity3D.com Tukatech, Inc. Unity Technologies VanGogh Imaging Vicon Wacom Technology Services, Corp. Web3D Consortium Western Digital WorldViz Z Corporation Zygote Media Group, Inc.

Keynote

USA Jane McGonigal (SuperBetter Labs)

Panels

USA

The Battle for Motion-Controlled Gaming and Beyond Jason Jerald (Digital ArtForms, Inc.)

Virtual Production Branches Out Matt Aitken (Weta Digital)

Posters

Canada Using Motion Capture to Manipulate and Edit Meshes Joe Istead (University of Western Ontario) USA 8D Display Matthew Hirsch (MIT Media Lab)

A Cell-Phone Platform for Facial Performance Capture Svetlana Akim (USC)

A Dynamic System for Controlling the Head Movement and Gaze of Virtual Characters Timothy Gifford (University of Connecticut)

A Motion-Sensor Interactive Interface for Viewing and Manipulating Protein Structural Data in 3D Robyn Moncrief (Oklahoma State University)

Calligraphic Cutting Youyou Wang (Texas A&M University)

CoDAC Andrea Colaco (Massachusetts Institute of Technology)

Compressive Light-Field Photography Kshitij Marwah (MIT Media Lab)

Computational Cellphone Microscopy Aydın Arpa (MIT Media Lab)

Computational Retinal Imaging Via Binocular Coupling and Indirect Illumination Everett Lawson (MIT Media Lab)

Design Ornamentation & Fabrication by Multi-Agent System Subhajit Das (University of Pennsylvania)

Estimating Diffusion Parameters From Polarized Spherical Gradient Illumination Yufeng Zhu (USC)

Image-Based Smartphone Interaction With Large High Resolution Displays Jurgen Schulze (UCSD)

Improving Registration Using Active Shape Models and Depth Colin Bellmore (Rochester Institute of Technology)

Measurement-Based Synthesis of Facial Microgeometry Paul Graham (USC Institute for Creative Technologies)

Non-Rigid Shape Correspondence and Description Using Geodesic Field Estimate Distribution Anirban Mukhopadhyay (University of Georgia)

Perifoveal Display Valentin Heun (MIT Media Lab)

SEAD - Network for Sciences, Engineering, Arts, and Design Sheldon Brown (UCSD)

SketchGraph Jacquelyn Martino (IBM Research)

Sketching Knots Ergun Akleman (Texas A&M University)

Tongue Visualization for Specified Speech Task Yin Yang (University of Texas at Dallas)

Transparent Arlene Ducao (MIT Media Lab)

Turning Photographs Into Abstract Expressionist Paintings Youyou Wang (Texas A&M University)

Use of CUDA Streams for Block-Based MPEG Motion Estimation on the GPU Mai El-Shehaly (Virginia Polytechnic Institute and State University)

Real-Time Live!

USA ARCADE: A System for Augmenting Gesture-Based Computer Graphic Presentations Murphy Stein (New York University)

Brigade Sam Lapere (OTOY, Inc.)

Leo Abraham Wiley (AMD)

Star Wars 1313 Roger Cordes (LucasArts)

Uncharted 3 Visual Effects Doug Holder (Naughty Dog Inc.)

Unreal Engine 4 Elemental Andrew Scheidecker (Epic Games, Inc.)

SIGGRAPH Dailies!

USA Digital Decay Bruce Wright (Walt Disney Animation Studios)

French Toast & Bugzilla Ann McNamara and Students (Texas A&M University)

Do Try This at Home Drew Skillman (Double Fine Productions)

The Sky is Falling! Kel Elkins (Analytical Graphics, Inc.)

Ghaaaaat Miiiiiilk Robert Chen (DreamWorks Animation)

Eggceptional Faberge Sarah McGee (Zoic Studios)

Poetic Plumes Scott Keating (Side Effects Software Inc.)

Snake Attack Fangwei Lee (DreamWorks Animation)

Mortal Kombat Morphing Jon Greenberg (NetherRealm Studios)

Silence Kevan Loney (Texas A&M University)

Blast, Off? Kel Elkins (Analytical Graphics, Inc.)

Creamed! Kyle Maxwell (DreamWorks Animation) Putting Pleasing Pixels on "Paperman" Amol Sathe (Walt Disney Animation Studios)

Animated Still Life Ergun Akleman (Texas A&M University)

Mandible & Goldblum Ann McNamara and Students (Texas A&M University)

Flopping Fish Greg Gladstone (DreamWorks Animation)

SIGGRAPH Mobile

USA

Panel - Mobile GPUs: Markets and Technology Peter Glaskowsky (Microsoft Corporation) Dan Wexler (The 11ers) Dave Shreiner (ARM, Inc.) Eric Demers (Qualcomm Incorporated)

Saving the Planet, One Handset at a Time: Designing Low-Power, Low-Bandwidth GPUs Thomas Olson (ARM Ltd)

Unity: iOS and Android - Cross-Platform Challenges and Solutions Renaldas Zioma (Unity Technologies)

Novel Approaches to GPU Performance Analysis Karthik Hariharakrishnan (ARM Ltd)

Auto(mobile) Vidya Setlur (Nokia Research Center)

Studio

USA Introducing Processing 2.0 Andres Colubri (Harvard University and Fathom Information Design)

Exploring Algorithmic Geometry Using "Beetle Blocks" Duks Koschitz (Massachusetts Institute of Technology)

RhythmSynthesis Ryan Raffa (Parsons The New School for Design)

Automatic Lead-Sheet Visualization for Musical Study Douglas Mason (Harvard University)

AudioCloning: Extracting Material Fingerprints from Example Audio Recording Hengchin Yeh (University of North Carolina at Chapel Hill)

Magic Beanstalk Ride in "Puss In Boots" Amaury Aubel (DreamWorks Animation SKG)

Conquering the Seas of "Ice Age: Continental Drift " Mark Adams (Blue Sky Studios)

River Running Through It Michael O'Brien (Pixar Animation Studios)

Creating Vast Game Worlds - Experiences From Avalanche Studios Emil Persson (Avalanche Studios)

Get Real! Automated Methods for Rapid Prototyping and Industrial Design Martin Wicke (Otherlab)

Now That We Have Desktop 3D Printers, The Revolution Can Begin Matthew Griffin (MakerBot Industries, LLC)

DIYLILCNC v2.0 Chris Reilly (UCLA)

Virtual Cane Creation for Glassblowers

Andrew Winslow (Tufts University)

SketchGraph: Gestural Data Input for Mobile Tablet Devices Jacquelyn Martino (IBM Corporation)

Public Displays of Computing: Space, Place, and Computing Eric Sauda (University of North Carolina at Charlotte)

Interactive Modeling With Mesh Surfaces Ryan Schmidt (Autodesk Research)

Gigapixel Science Lab Gene Cooper (Four Chambers Studio)

Body Monitoring: Exploring the Creative Uses of Invasive Technologies Julie Legault (Royal College of Art)

Material is Expensive, But Complexity is Free Charles Overy (Laser Graphic Manufacturing)

Presenting Mojito William Edney (Yahoo! Inc.) ZBrush: Artists Without Borders Paul Gaboury (Pixologic, Inc.)

Signal Strength: Activist Networking Techniques Amelia Marzec (Eyebeam Art)

Making Your Own Avatar Ketrina Yim (PhaseSpace Inc.)

Intro to Arduino Smart Lighting With Arduino Alejandro Borsani (Rensselaer Polytechnic Institute)

Talks

Canada

Lighting the Open World of New York Zero for Prototype 2 Keith O'Conor (Radical Entertainment)

Screen Space Decals in Warhammer 40,000: Space Marine Pope Kim (Relic Entertainment)

USA

Asking the Impossible on SSX: Creating 300 Tracks on a 10-Track Budget Caleb Howard (Electronic Arts and Cognitive Imaging Corporation)

Point-Based Global Illumination Directional Importance Mapping Eric Tabellion (PDI/DreamWorks)

Character Design: Visual Complexity in "Brave" Curls Gone Wild: Hair Simulation in "Brave" Simulation Preview in "Brave" Ill-Loom-inating Handmade Fabric in "Brave" Building the Snow Footprint Pipeline on "Brave" Olivier Soares (Pixar Animation Studios) Jacob Speirs (Pixar Animation Studios) Alexander Nehls (Pixar Animation Studios) Philip Child (Pixar Animation Studios)

Cloud Modeling And Rendering for "Puss In Boots" Brett Miller (DreamWorks Animation)

A World of Voxels: The Volumetric Effects of "Ice Age: Continental Drift" Making Tracks: Footprints in the "Ice Age" Movies Andrew Schneider (Blue Sky Studios)

Vortex of Awesomeness Can Yuksel (DreamWorks Animation)

Efficient and Seamless Volumetric Fracturing Mihai Alden (DreamWorks Animation)

Estimating Specular Normals From Spherical Stokes Reflectance Fields Giuseppe Claudio Guarnera (USC Institute for Creative Technologies)

Estimating Diffusion Parameters From Polarized Spherical Gradient Illumination Yufeng Zhu (University of Southern California)

Measurement-Based Synthesis of Facial Microgeometry Paul Graham (USC Institute for Creative Technologies) A Single-Shot Light Probe Paul Graham (USC Institute for Creative Technologies)

From a Calm Puddle to a Stormy Ocean: Rendering Water in Uncharted Carlos Gonzalez-Ochoa (Naughty Dog, Inc.)

What if the Earth Was Flat: The Globe UI System in SSX Qing Shen (Electronic Arts)

Introducing Processing 2.0 Andres Colubri (Harvard University and Fathom Information Design)

Janak Bhimani (Keio University)

Adapting Curriculum to Explore New 3D Modeling Technologies and Workflows Shaun Foster (Rochester Institute of Technology)

Headstrong, Hairy, and Heavily Clothed Paul Kanyuk (Pixar Animation Studios)

Hero-Quality Crowds in "Madagascar 3: Europe's Most Wanted" Nathaniel Dirksen (DreamWorks Animation)

LibEE: A Multithreaded Dependency Graph for Character Animation Martin Watt (Dreamworks Animation)

Crom - Massively Parallel, CPU/GPU Hybrid Computation Platform for Visual Effects John Vanover (Rhythm & Hues Studios, Inc.)

Amorphous: An OpenGL Sparse Volume Renderer Mark Matthews (DreamWorks Animation)

Efficient Large-Scale Hybrid Fluid Simulation Abhinav Golas (University of North Carolina at Chapel Hill)

KinÊtre: Animating the World With the Human Body Jiawen Chen (Microsoft Research Cambridge)

Computational Retinal Imaging via Binocular Coupling and Indirect Illumination Everett Lawson (MIT Media Lab)

Relativistic Ultrafast Rendering Using Time-Resolved Imaging Andreas Velten (University of Wisconsin)

Compressive Light-Field Photography Kshitij Marwah (MIT Media Lab)

Computer-Assisted Animation of Line and Paint in Disney's "Paperman" Brian Whited (Walt Disney Animation Studios)

Stable, Art-Directable Skin and Flesh Using Biphasic Materials Ryan Kautzman (Pixar Animation Studios)

"Wrath Of The Titans" - Complex Models With Voxel Greeble Daniel Seddon (Method Studios)

Multiresolution Radiosity Caching for Global Illumination in Movies Per Christensen (Pixar Animation Studios)

dRig: An Artist-Friendly, Object-Oriented Approach to Rig Building Gregory Smith (Walt Disney Animation Studios)

Importance Sampling for Hair Scattering Jiawei Ou (Dartmouth College/DreamWorks Animation)

Adaptive Noise Reduction for Progressive Photon Mapping

Zhe Fu (University of California, San Diego)

Progressive Volume Photon Tracing Charly Collin (University of Central Florida)

Volume-Aware Extinction Mapping Pascal Gautron (Technicolor Research & Innovation)

Fast Generation of Directional Occlusion Volumes Andrew Willmott (Electronic Arts Inc.)

Art Pipeline: Transition From Offline to Real-Time CG Renaldas Zioma (Unity Technologies)

High-Fidelity Facial Hair Capture Graham Fyffe (USC Institute for Creative Technologies)

Furry, Fuzzy, Lovable: Once Upon a Monster's Fur Pipeline Peter Demoreuille (Google Inc.)

Crowd Sourcing Memory Colors For Image Enhancment Su Xue (Yale University)

Calligraphic Cutting: Extreme Image Resizing With Cuts in Continuous Domain Youyou Wang (Texas A&M University)

Building Interior Multi-Panorama Experiences at Scale Mark Colbert (Google Inc.)

CoDAC Andrea Colaco (Massachusetts Institute of Technology)

Technical Papers

Canada Primal-Dual Coding to Probe Light Transport Matthew O'Toole (University of Toronto)

Eyecatch: Simulating Visuomotor Coordination for Object Interception Sang Hoon Yeo (The University of British Columbia)

CrossShade: Shading Concept Sketches Using Cross-Section Curves Cloud Shao (University of Toronto)

Stochastic Tomography and Its Applications in 3D Imaging of Mixing Fluids James Gregson (The University of British Columbia)

Ghost SPH for Animating Water Hagit Schechter (The University of British Columbia)

MultiFLIP for Energetic Two-Phase Fluid Simulation Landon Boyd (The University of British Columbia)

Efficient Geometrically Exact Continuous Collision Detection Tyson Brochu (The University of British Columbia)

Sparse Zonal Harmonic Factorization for Efficient SH Rotation Derek Nowrouzezahrai (Université de Montréal)

Fluid Simulation Using Laplacian Eigenfunctions Tyler de Witt (University of Toronto)

USA

Optimizing Locomotion Controllers Using Biologically Based Actuators and Objectives Jack M. Wang (Stanford University)

Soft Body Locomotion Jie Tan (Georgia Institute of Technology)

Video-Based 3D Motion Capture Through Biped Control Marek Vondrak (Brown University)

Continuous Character Control With Low-Dimensional Embeddings Sergey Levine (Stanford University)

Schelling Points on 3D Surface Meshes Xiaobai Chen (Princeton University)

Specular Reflection From Woven Cloth Piti Irawan (Cornell University)

DRAPE : DRessing Any PErson Peng Guan (Brown University)

Stitch Meshes for Modeling Knitted Clothing With Yarn-level Detail Cem Yuksel (Cornell University)

Decoupling Algorithms From Schedules for Easy Optimization of Image-Processing Pipelines Jonathan Ragan-Kelley (Massachusetts Institute of Technology)

High-Quality Image Deblurring With Panchromatic Pixels Sen Wang (Eastman Kodak Company)

3D Imaging Spectroscopy for Measuring 3D Hyperspectral Patterns on Solid Objects Min H. Kim (Yale University)

Fast High-Resolution Appearance Editing Using Superimposed Projections Daniel E. Aliaga (Purdue University)

Printing Reflectance Functions Thomas Malzbender (Hewlett-Packard Laboratories)

Synthesis of Detailed Hand Manipulations Using Contact Sampling Yuting Ye (Georgia Institute of Technology)

Discovery of Complex Behaviors through Contact-Invariant Optimization Igor Mordatch (University of Washington)

Three-Dimensional Proxies for Hand-Drawn Characters Eakta Jain (Carnegie Mellon University)

Learning Hatching for Pen-and-Ink Illustration of Surfaces Evangelos Kalogerakis (Stanford University)

HelpingHand: Example-Based Stroke Stylization Jingwan Lu (Princeton University)

Fabricating Articulated Characters From Skinned Meshes Moritz Bächer (Harvard University)

Stress Relief: Improving Structural Strength of 3D Printable Objects Ondrej Stava (Purdue University)

A Theory of Monte Carlo Visibility Sampling Ravi Ramamoorthi (University of California, Berkeley)

Theory, Analysis, and Applications of 2D Global Illumination Wojciech Jarosz (University of California, San Diego)

Reconstructing the Indirect Light Field for Global Illumination Jaakko Lehtinen (NVIDIA Research)

Manifold Exploration: A Markov Chain Monte Carlo Technique for Rendering Scenes With Difficult Specular Transport Wenzel Jakob (Cornell University)

Bidirectional Lightcuts Bruce Walter (Cornell University)

Animating Bubble Interactions in a Liquid Foam Oleksiy Busaryev (The Ohio State University)

Exploring Collections of 3D Models Using Fuzzy Correspondence Vladimir G. Kim (Princeton University)

A Probabilistic Model for Component-Based Shape Synthesis Evangelos Kalogerakis (Stanford University)

Synthesizing Open Worlds With Constraints Using Locally Annealed Reversible Jump MCMC Yi-Ting Yeh (Stanford University)

Interactive Editing of Deformable Simulations Jernej Barbic (University of Southern California)

Fast Simulation of Skeleton-Driven Deformable Body Characters Junggon Kim (Carnegie Mellon University)

Eulerian Video Magnification for Revealing Subtle Changes in the World Hao-Yu Wu (Massachusetts Institute of Technology)

Selectively De-Animating Video Jiamin Bai (University of California, Berkeley)

Tools for Placing Cuts and Transitions in Interview Video Floraine Berthouzoz (University of California, Berkeley)

Structure-Aware Synthesis for Predictive Woven Fabric Appearance Shuang Zhao (Cornell University)

Point Sampling With General Noise Spectrum Yahan Zhou (University of Massachusetts Amherst)

Symmetry-Guided Texture Synthesis and Manipulation Vladimir Kim (Princeton University)

Resolution Enhancement by Vibrating Displays Floraine Berthouzoz (University of California, Berkeley)

Edge-Guided Resolution Enhancement in Projectors via Optical Pixel Sharing Behzad Sajadi (University of California, Irvine)

Tensor Displays: Compressive Light-Field Synthesis Using Multilayer Displays With Directional Backlighting Gordon Wetzstein (MIT Media Lab)

An Algebraic Model for Parameterized Shape Editing Martin Bokeloh (Stanford University)

Steady Affine Motions and Morphs Jarek Rossignac (Georgia Institute of Technology)

Image Melding: Combining Inconsistent Images Using Patch-Based Synthesis Soheil Darabi (University of New Mexico)

Panorama Weaving: Fast and Flexible Seam Processing Brian Summa (University of Utah and ViSUS Inc.)

Understanding and Improving the Realism of Image Composites Su Xue (Yale University) Exposing Photo Manipulation With Inconsistent Reflections James F. O'Brien (University of California, Berkeley)

Position-Correcting Tools for 2D Digital Fabrication Alec Rivers (Massachusetts Institute of Technology)

Micro Perceptual Human Computation for Visual Tasks Yotam Gingold (Columbia University and Rutgers)

Energy-Based Self-Collision Culling for Arbitrary Mesh Deformations Changxi Zheng (Cornell University)

Physically Based Simulation of Rainbows Iman Sadeghi (University of California, San Diego)

A Framework for Content-Adaptive Photo Manipulation Macros Floraine Berthouzoz (University of California, Berkeley)

Image-Based Rendering for Scenes With Reflections Sudipta N. Sinha (Microsoft Research)

Motion-Driven Concatenative Synthesis of Cloth Sounds Steven S. An (Cornell University)

Precomputed Acceleration Noise for Improved Rigid-Body Sound Jeffrey N. Chadwick (Cornell University)

Interactive Sound Propagation Using Compact Acoustic Transfer Operators Lakulish Antani (University of North Carolina at Chapel Hill)

Updated Sparse Cholesky Factors for Corotational Elastodynamics Florian Hecht (University of California, Berkeley)

Global Parameterization by Incremental Flattening Ashish Myles (New York University)

Mass Splitting for Jitter-Free Parallel Rigid-Body Simulation Richard Tonge (NVIDIA Corporation)

Reflections on Simultaneous Impact Breannan Smith (Columbia University)

Discrete Bi-Laplacians and Biharmonic B-Splines Powei Feng (Rice University)

Perceptual Models of Viewpoint Preference Adrian Secord (New York University)

Discrete Viscous Sheets Christopher Batty (Columbia University)