



# CineGrid International Workshop 2014 Program

Workshop organized by Pacific Interface, Inc.  
Sponsored by CineGrid, a non-profit organization headquartered in California  
Hosted by Calit2's Qualcomm Institute at UC San Diego  
Location: Calit2 auditorium, 1st Floor, Atkinson Hall, UCSD, La Jolla, California  
Date: December 8-10, 2014

## MONDAY, DECEMBER 8, 2014

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- 8:00 Buses depart La Jolla Shores Hotel for Calit2 auditorium, UCSD campus  
8:15 Registration and continental breakfast at Calit2
- 9:00 **Workshop welcome** – Natalie Van Osdol, Pacific Interface  
9:05 **Welcoming remarks** – Tom DeFanti, UCSD/Qi
- 9:15 **Session 1: Keynote – Advances in Digital Motion Picture Quality** – Dave Schnuelle, Dolby Labs
- 10:00 Break
- 10:30 **Session 2: Media in the Clouds** – moderated by Naohisa Ohta, Keio University KMD  
10:35 Processing Media in Public/Private Clouds – Cees de Laat, UvA  
11:00 Live Rendering with Content Expresso and Catalogue – Takeshi Sano, Keio University (Demo)  
11:25 ETC Production in the Cloud – Guillaume Aubuchon, Digital Film Tree  
11:50 Video Switching in the Cloud – Petr Holub & Michal Krsek, CESNET (Demo)  
12:15 Q&A  
12:25 Czech Surprise – Mirek Sochor, UPP
- 12:35 **CineGrid Exchange Update** – Dana Plepys, UIC/EVL
- 12:45 Lunch
- 2:00 **Session 3: Advances in IP-based Media Production** – Moderated by Paul Hearty, Sony Electronics  
2:05 Live Video Production over IP – Hugo Gaggioni, Sony Electronics  
2:30 VISIONAIR and Future 8K 3D at PSNC – Maciej Glowiak & Maciej Strozyk, PSNC  
2:55 Live Streaming 8K over IP from World Cup 2014 – Tatsuya Fujii, NTT Network Innovation Labs  
3:20 Pixel Race – Jane de Almeida, Mackenzie University/ANSP and Leandro Ciuffo, RNP  
3:30 Q&A
- 3:40 Break
- 4:00 **Session 4: Next Generation Displays** – moderated by Jeff Weekley, NPS  
4:05 Display Quality: Definitions and Challenges – George Joblove, Prima Lumina and Gary Demos, Image Essence  
4:30 The Future of LED Technology – Neil Wittering, Barco  
4:55 Trends in Laser Projection – Peter Lude, RealD / LIPA  
5:20 8K Projectors – Rod Sterling, JVCKENWOOD (Demo)  
5:45 Q&A
- 5:55 **Closing Remarks** – Laurin Herr, Pacific Interface  
6:00 Adjourn  
6:15 Bus returns to La Jolla Shores Hotel  
6:30 Workshop buffet dinner at the La Jolla Shores Hotel (Acapulco Room, 2nd floor)

## TUESDAY, DECEMBER 9, 2014

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- 8:00 Buses depart La Jolla Shores Hotel for Calit2 auditorium, UCSD campus  
8:15 Registration and continental breakfast at Calit2
- 9:00 **Workshop welcome** – Natalie Van Osdol and Laurin Herr, Pacific Interface
- 9:05 **Session 1: Keynote – Remote Collaboration Grand Challenges** – Greg Harper, HarperVision
- 9:50 **Session 2: Audio in Collaboration (A)** – moderated by Richard Weinberg, USC SCA  
9:55 Distributed Musical Performance – Guido Lemos, LAVID/UFPB (Demo)
- 10:20 **Break**
- 10:50 **Session 2: Audio in Collaboration (B)** – moderated by Richard Weinberg, USC SCA  
10:55 MDAC Audio for Conferencing over IP networks – Alan Kraemer, ComHear, Inc.  
11:20 NWS Plays “City of Sao Paulo” – Jane de Almeida, Mackenzie University/ANSP and Thiago de Andre, University of Sao Paulo and Tereza Christina Carvalho & Fernando Redigolo, University of Sao Paulo/ANSP & Michael Linville, New World Symphony (Demo)  
11:45 Q&A
- 11:55 **Session 3: Remote Collaboration for Media Production and Mastering** – moderated by George Joblove, Prima Lumina  
12:00 Interoperability for Remote Collaboration in Media Production and Mastering – William Feightner, ColorFront  
12:25 Q&A
- 12:35 **Group photo @ The Bear** (courtyard)
- 12:45 **Lunch**
- 2:00 **Session 4: Remote Collaboration for Tele-Training and Medical Education** – Moderated by Michal Krsek, CESNET  
2:05 Telemedicine for Stereomicroscopic Ophthalmic Surgery – Guido Lemos, LAVID/UFPB and Cicero Inacio da Silva & Milton Yogi & Paulo Schor, UNIFESP (Demo)  
2:30 Q&A
- 2:40 **Break**
- 3:10 **Session 5: Remote Collaboration and Education Platforms** – Moderated by Atsushi Takahara, NTT Network Innovation Labs  
3:15 Introducing SAGE 2 (Scalable Amplified Group Environment) – Jason Leigh, UH/LAVA and Luc Renambot, UIC/EVL (Demo)  
3:40 SAGE 2 Surprise  
3:50 Q&A  
4:00 GoTime – Todd Margolis, UCSD/Qi and Qlik (Demo)  
4:25 Q&A  
4:35 REMOCOP: Platform for Interactive and Hybrid Remote Collaboration – Daisuke Shirai, NTT Network Innovation Labs (Demo)  
5:00 Q&A
- 5:10 **Session 6: Visual Musical Creative Collaboration** – Moderated by Tom DeFanti, UCSD/Qi  
5:15 Making of “Vishwaroop” – Vibeke Sorensen & Nagaraju Thummanapalli, Nanyang Technological University and John Young, Reuben H. Fleet Science Center (Demo)  
5:40 Q&A
- 5:50 **Closing Remarks** – Laurin Herr, Pacific Interface  
6:00 Adjourn  
6:15 Bus returns to La Jolla Shores Hotel  
6:30 Workshop buffet dinner at the La Jolla Shores Hotel (Acapulco Room, 2nd floor)

## WEDNESDAY, DECEMBER 10, 2014

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- 8:00 Buses depart La Jolla Shores Hotel for Calit2 auditorium, UCSD campus  
8:15 Registration and continental breakfast at Calit2
- 9:00 **Workshop Welcome** – Natalie Van Osdol and Laurin Herr, Pacific Interface
- 9:05 **Session 1: Keynote: Advances in Photoreal Digital Humans in Film and in Real-Time.**– Paul Debevec, USC
- 9:50 **Session 2: Approaches to Immersive Audio** – moderated by Elizabeth Cohen, Cohen Acoustical /AMPAS  
9:55 Immersive Sound Design Infrastructure for Cinema – Brian Long, Skywalker Sound  
10:20 3D Object Sound Design – Peter Otto, UCSD/Sonic Arts and John Kellogg, DTS  
10:45 Q&A
- 10:55 Break
- 11:25 **Session 3: The Quest for AR/VR Displays** – Moderated by Tom DeFanti, UCSD/Qi  
11:30 Augmented Reality Aerial Navigation – Jeffery Johnson, Aero Glass  
11:55 Considering Next Generation Head Mounted Virtual Reality Displays – Jurgen Schulze, UCSD/Qi  
12:20 Q&A
- 12:30 **LUNCH**
- 12:45 **WAVE-based Group Viewing of Individual HMD Experience** – Jurgen Schulze, UCSD/Qi (Demo)  
Demos will be held in SME building – 5-minute walk from Atkinson Hall – maps available at reception desk
- 2:15 **Session 4: Cameras to Virtualize Visual Reality** – Moderated by Maxine Brown, UIC/EVL  
2:20 State of the Art in Digital Motion Picture Cameras – Dave Stump, ASC  
2:45 Structure from Motion (SfM) and LiDAR – Dan Sandin, UIC/EVL  
3:10 Multi-camera Capture and Analysis for Light-field Immersive Experiences – Harlyn Baker, University of Heidelberg/HCI  
3:35 Cameras for Immersive Entertainment – Tom Annau, Jaunt VR  
4:00 Advanced Optics Research for Next Generation Cameras – Joe Ford, UCSD/PSL  
4:25 Q&A
- 4:35 **Break**
- 5:15 **Session 5: High Bandwidth TCP Optimization** Mitsuru Higashiyama, Anritsu
- 5:30 **Session 6: New Media Workflows** – Moderated by Cees de Laat, UvA  
5:35 8K Immersive Advertising – Jeff Cohen, Industrial Media Platforms (Demo)  
6:00 Q&A
- 6:10 **Closing Remarks** – Laurin Herr, Pacific Interface  
6:20 Adjourn  
6:30 Bus returns to La Jolla Shores Hotel  
7:00 “Dutch-treat” Dinner

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*CineGrid International Workshop 2014 Program Committee Additional members TBD*

*Tom DeFanti, UCSD/Calit2, Qualcomm Institute*

*Cees de Laat, University of Amsterdam, Informatics Institute*

*Paul Hearty, Sony Electronics Inc.*

*Laurin Herr, Pacific Interface, Inc.*

*Naohisa Ohta, Graduate School of Media Design, Keio University*

*Peter Otto, UCSD, Department of Music*

*Natalie Van Osdol, Pacific Interface*