



CineGrid International Workshop 2011 Program

Workshop organized by Pacific Interface, Inc.

Sponsored by CineGrid, a non-profit organization headquartered in California

Hosted by the California Institute for Telecommunications and Information Technology (Calit2) at University of California, San Diego (UCSD)

Location: Calit2 auditorium, 1st Floor, Atkinson Hall, UCSD, La Jolla, California

Date: December 4-7, 2011

CineGrid's mission is to build an interdisciplinary community that is focused on the research, development and demonstration of networked collaborative tools to enable the production, use, preservation and exchange of very high-quality digital media over photonic networks.

MONDAY, DECEMBER 5, 2011

- 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 and Overview – Natalie Van Osdol, Pacific Interface**
- 9:05 **Welcoming remarks – Ramesh Rao, Calit2/UCSD**
- 9:15 **CineGrid Member Events 2011 – moderated by Natalie Van Osdol, Pacific Interface**
(75 minutes = 5 min. intro + 3 presentations x 20 min. + 10 Min. Q&A)
CineGrid @ Amsterdam 2011: Frank Kresin, Waag Society and Walter van Djik, SURFnet
CineGrid @ Rio 2011: Michael Stanton and Leandro Ciuffo, RNP
CineGrid @ Tokyo 2011: Naohisa Ohta, Keio University and Daisuke Shirai, NTT Network Innovation Laboratories
- 10:30 **Break**
- 11:00 **Remote Sensing over Networks – moderated by Laurin Herr, Pacific Interface**
(75 minutes = 5 min. intro + 3 presentations x 20 Min. + 10 min. Q&A)
4K Live Microscopy: Richard Weinberg, USC/SCA **(live streaming 4K/60p J2K from USC)**
Ocean Observatories Initiative (OOI): Ron Johnson, University of Washington
4K Aloft: Jeff Weekley, Naval Postgraduate School (NPS)
- 12:15 **CineGrid Screening room #1 – moderated by Michal Krsek, CESNET**
(25 minutes = 6 min. intro + 19 min. screening)
Coppa di Sicilia: UPP, Prague, CZ **(4K streaming from Prague)**
- 12:40 **Lunch**
- 2:15 **CineGrid Testbed Tools for Collaboration – moderated by Jason Leigh EVL/UIC**
(95 minutes = 5 min. intro + 4 presentations x 20 min. + 10 min. Q&A)
SAGE User Interface & Video: Luc Renambot, UIC/EVL
SAGE Audio Manager and Directional Audio: Nathan Brock and Michelle Daniels, UCSD/SonicArts
VROOM: Todd Margolis, Calit2/UCSD
UltraGRID: Petr Holub, CESNET and Felix Nevrela, FINT **(live HD streaming from Prague)**

- 3:50 **Break**
- 4:20 **Tohoku Recovery: moderated by Naohisa Ohta, Graduate School of Media Design, Keio University (KMD)**
(50 minutes = 5 min. intro + 1 remote presentation x 20 min. + 1 introduction (local +remote) x 15 min. + screening x 10 min. + 10 min Q&A)
 Introduction and Overview: Naohisa Ohta, KMD, Keio University
 Report from Japan: Masayuki Kawamata and Masahide Abe, Tohoku University (**live 4K/60p J2K telepresence from Tohoku University**)
 “Lenses and Landscape” – growing a Growing Documentary: Janak Bhimani and Annisa Pratiwi, KMD, Keio University (**live 4K/60p telepresence + 4K J2K streaming from Keio KMD**)
- 5:20 **Vroom: Collaboration Session with Tokyo: moderated by Naohisa Ohta, Graduate School of Media Design, Keio University (KMD)**
 Keio University and UCSD Collaboration using “Growing Documentary” material
(CineSAGE + 4K telepresence between Keio and UCSD)
- 6:15 Adjourn
- 6:30 Bus returns to La Jolla Shores Hotel
- 7:00 Workshop buffet dinner at the La Jolla Shores Hotel (Acapulco Room, 2nd floor)

TUESDAY, DECEMBER 6, 2011

- 8:00 Buses depart La Jolla Shores Hotel for Calit2 auditorium
- 8:15 Registration and continental breakfast at Calit2
- 8:55 **CineGrid Exchange – moderated by Paul Hearty, Sony Electronics (USA)**
(95 minutes = 5 min. intro + 4 x 20 min. presentations + 10 min. Q&A)
 CineGrid Exchange Update: Dana Plepys, EVL/UIC
 Front-end for CineGrid Resource Modules: Cosmin Dumitru, UvA
 Content Espresso–Distributed Secure Media Exchange: Daisuke Ando, Keio DMC
 iRODS Update: Wayne Schroeder, DICE
- 10:30 **Vroom: Collaboration Session with Chicago + Break**
 Break + CineSAGE Demos in Vroom
 Moderated by Nathan Brock, Sonic Arts/UCSD. Participants: EVL/UIC, Sonic Arts/UCSD, NTT Network Innovation Laboratories (**CineSAGE + HD telepresence between UIC and UCSD**)
- 11:30 **Advanced Digital Cinema – moderated by Andy Maltz, AMPAS/STC**
(75 minutes = 5 min. intro + 3 presentations x 20 min. + 10 min. Q&A)
 Digital Motion Picture Cameras–Overview: Dave Stump, ASC
 IIF/ACES workflows: Andy Maltz, AMPAS/STC
 Infrastructure for Advanced Digital Cinema Workflows: George Joblove
- 12:45 **Lunch + Optional Working Group / BOF / Project Team luncheons (self-organized)**
- 2:15 **Advances in Virtual Reality – moderated by Tom DeFanti, Calit2/UCSD**
(95 minutes = 5 min. intro. + 4 presentations x 20 min. + 10 min. Q&A)
 DoD Immersive VR: Michael MacKay, EXE Global Studios
 VISIONAIR: Frederic Noel, Grenoble-INP
 CAVE-to-CAVE Remote Navigation: Sven Ubik, CESNET
 CAVEcam 3D Photography, 3D CyberCommons and Next Generation CAVE: Dan Sandin, EVL/UIC

- 3:50 **Break + CAVE Demonstrations:**
StarCAVE : Dan Sandin, EVL/UIC
NexCAVE : Tom DeFanti - Calit2/UCSD
TourCAVE: Calit2/UCSD
CAVE-to-CAVE Remote Navigation: Sven Ubik, CESNET
- 4:45 **Vroom: 4K 3D CineGrid Exchange Screening Room – Moderated by Dana Plepys, EVL/UIC**
- TV Globo 3D Sample Reel – Jose Dias, TV Globo
 - drop – William Raymond Lotherington IV
 - Butoh – Fumihiko Kamemura, Keio DMC
 - The 24/7 Tokyo – Akihiko Matsuzawa, Keio DMC
 - StarCAVE Archeology – Todd Margolis, Calit2/UCSD
 - StereoEssays – Jane DeAlmeida, Mackenzie University
 - Direct Numerical Simulations of Cosmological Re-ionization – SDSC & Argonne National Lab.
 - Jan Matejko's "Battle of Grunwald" in 3D – Platige Image
- 5:30 **3D Creators Panel – Moderated by Dana Plepys, EVL/UIC**
(45 minutes = 8 creator comments x 3 Min + 20 min Q&A)
 Tom DeFanti, Calit2/UCSD
 Dan Sandin, EVL/UIC
 Robert Kooima, LSU/CCT
 Todd Margolis, Calit2/UCSD
 Richard Wagner, SDSC, UCSD
 Maciej Glowiak, Poznan Supercomputing and Networking Center (PSNC)
 Jane DeAlmeida, Mackenzie University
 Kunitake Kaneko, Keio DMC
 Jose Dias, TV Globo
- 6:15 Adjourn
 6:30 Bus returns to La Jolla Shores Hotel
 7:00 Workshop buffet dinner at the La Jolla Shores Hotel (Acapulco Room, 2nd floor)

WEDNESDAY, DECEMBER 7, 2011

- 8:00 Buses depart La Jolla Shores Hotel for Calit2
 8:15 Registration and continental breakfast at Calit2
- 9:00 **Research Reports Part 1– moderated by Cees de Laat, University of Amsterdam**
(95 minutes = 5 min. intro + 4 presentations x 20 min. +10 min. Q&A)
 4K Research at PSNC: Maciej Glowiak, Poznan Supercomputing and Networking Center (PSNC)
 VLAN Switching on the Fly: Tsuyoshi Ogura, NTT Network Innovation Labs
 3D Broadcast Research: Jose Dias, Multimedia R&D Laboratory, Globo TV
 Software playback of 4K 3D DCP: Nori Suzuki, Zaxel **(local playback of 4K/24p using Zaxel player)**
- 10:35 **Vroom: VLAN Switching Demo + Break (Local and remote streaming of 4K)**
- 11:15 **Research Reports Part 2 – moderated by Atsushi Takahara, NTT Network Innovation Laboratories**
(95 minutes = 5 min. intro + 4 presentations x 20 min. +10 min. Q&A)
 Developing FPGA for JPEG 2000–Jean-Baptiste Lorent, IntoPIX
 KACST Streaming: Jason Kimball, UCSD/Calit2
 Uncompressed HD/3G-SDI over Carrier Ethernet: Michael Watford, Ciena Labs
 Fogo Distributed 4K Player: Guido Lemos de Souza Filho, Laboratory for Applications of Digital Video–
 LAVID: Federal University of Paraiba **(streaming 4K from Brazil using Fogo Distributed 4K Player)**
- 12:50 **Lunch + Optional Working Group / BOF / Project Team luncheons (self-organized)**

- 2:20 **Distributed Audio - Reports from AES'11 – moderated by Peter Otto, UCSD/Sonic Arts**
(55 minutes = 5 min. intro + 2 presentations x 20 min.. + 10 min. Q&A)
 AES Remote Performance, UCSD & Keio: Nathan Brock, Calit2/UCSD
 Remote Mentoring: Steve Morris and Brian Long, Lucasfilm
- 3:15 **Vroom: UltraGrid on SAGE demo + Break (Stereo HD Shoot, Send, Receive and Display)**
- 3:45 **CineGrid Exchange Screening Room – moderated by Dana Plepys, EVL/UIC**
(4K J2K streaming from various CineGrid nodes)
(45 minutes = 40 min. playlist sequence + intros for each piece)
- Lightheaded – UCSD Student Collaborators
 - Food Fight 4000 – UCSD Student Collaborators
 - 4k Aloft – Jeff Weekley, Naval Post Graduate School
 - Green Space – Vibeke Sorenson, Nanyang Technical University
 - Astro Fish “Underwater” – Toshi Ishii, Astrodesign
 - Sizuka – Takahiro Hayakawa
 - Bees – Ineke Bakker, Sandberg Institute / The One Minutes Project
 - Bastet – Takahiro Hayakawa
 - Noord/Zuid Trailer
 - MicrOrganisms II – Richard Weinberg, USC
 - “In a relation like that of a clock to a man” – Kristina Kersa, The One Minutes Project
 - Jin Kai Syu – Takahiro Hayakawa
 - Sintel – Ton Roosendaal, The Blender Foundation (12:00)
- 4:30 **Creator’s panel – Moderated by Dana Plepys, EVL/UIC**
(45 minutes = 5 creator comments x 5 Min + 20 min Q&A)
 Richard Weinberg, USC/SCA
 Takahiro Hayakawa, Kyushu University and Nagoya University of Art
 Jeff Weekley, NPS
 Vibeke Sorenson, Nanyang Technological University
 Walter van Dijk, SURFnet
 Tracy Cornish, UCSD
 Frank Kresin, The Waag Society
- 5:15 **Workshop Closing Session**
- 5:45 Adjourn
- 6:00 Bus returns to La Jolla Shores Hotel

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CineGrid International Workshop 2011 Program Committee
Tom DeFanti, UCSD, California Institute for Telecommunications and Information Technology
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 (KMD)
Peter Otto, UCSD, Department of Music
Natalie Van Osdol, Pacific Interface, Inc.

Color Key: **Demo/Streaming in auditorium**
 Demo/Streaming in Vroom
 Demo in StarCAVE, NexCAVE, TourCAVE and VirtuLab