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89th Oscars Scientific & Technical Awards for 2016-17

Description

Posted by Larry Gleeson

Beverly Wilshire Hotel
Saturday, February 11, 2017
Hosts: John Cho and Leslie Mann



Hosts Leslie Mann, left, and John Cho

Winners

TECHNICAL ACHIEVEMENT AWARDS (ACADEMY CERTIFICATES)

To **Thomson Grass Valley** for the design and engineering of the pioneering Viper FilmStream digital camera system.

The Viper camera enabled frame-based logarithmic encoding, which provided uncompressed camera output suitable for importing into existing digital intermediate workflows.

To **Larry Gritz** for the design, implementation and dissemination of Open Shading Language (OSL).

OSL is a highly optimized runtime architecture and language for programmable shading and texturing that has become a de facto industry standard. It enables artists at all levels of technical proficiency to create physically plausible materials for efficient production rendering.

To **Carl Ludwig**, **Eugene Troubetzkoy** and **Maurice van Swaaij** for the pioneering development of the CGI Studio renderer at Blue Sky Studios.

CGI Studioâ??s groundbreakingray-tracing and adaptive sampling techniques, coupled with streamlined artist controls, demonstrated the feasibility of ray-traced rendering for feature film production.

To **Brian Whited** for the design and development of the Meander drawing system at Walt Disney Animation Studios.

Meanderâ??s innovative curve-rendering method faithfully captures the artistâ??s intent, resulting in a significant improvement in creative communication throughout the production pipeline.

To **Mark Rappaport** for the concept, design and development, to **Scott Oshita** for the motion analysis and CAD design, to **Jeff Cruts** for the development of the faux-hair finish techniques, and to **Todd Minobe** for the character articulation and drive-train mechanisms, of the Creature Effects Animatronic Horse Puppet.

The Animatronic Horse Puppet provides increased actor safety, close integration with live action, and improved realism for filmmakers.

To **Glenn Sanders** and **Howard Stark** for the design and engineering of the Zaxcom Digital Wireless Microphone System.

The Zaxcom system has advanced the state of wireless microphone technology by creating a fully digital modulation system with a rich feature set, which includes local recording capability within the belt pack and a wireless control scheme providing real-time transmitter control and time-code distribution.

To **David Thomas**, **Lawrence E. Fisher** and **David Bundy** for the design, development and engineering of the Lectrosonics Digital Hybrid Wireless Microphone System.

The Lectrosonics system has advanced the state of wireless microphone technology by means of an innovative digital predictive algorithm to realize full fidelity audio transmission over a conventional analog FM radio link, by reducing transmitter size, and by increasing power efficiency.

To **Parag Havaldar** for the development of expression-based facial performance-capture technology at Sony Pictures Imageworks.

This pioneering system enabled large-scale use of animation rig-based facial performance-capture for motion pictures, combining solutions for tracking, stabilization, solving and animator-controllable curve editing.

To **Nicholas Apostoloff** and **Geoff Wedig** for the design and development of animation rig-based facial performance-capture systems at ImageMovers Digital and Digital Domain.

These systems evolved through independent, then combined, efforts at two different studios, resulting in an artist-controllable, editable, scalable solution for the high-fidelity transfer of facial performances to convincing digital characters.

To **Kiran Bhat**, **Michael Koperwas**, **Brian Cantwell** and **Paige Warner** for the design and development of the ILM facial performance-capture solving system.

This system enables high-fidelity facial performance transfer from actors to digital characters in large-scale productions while retaining full artistic control, and integrates stable rig-based solving and the resolution of secondary detail in a controllable pipeline.

SCIENTIFIC AND ENGINEERING AWARDS (ACADEMY PLAQUES)

To **ARRI** for the pioneering design and engineering of the Super 35 format Alexa digital camera system.

With an intuitive design and appealing image reproduction, achieved through close collaboration with filmmakers, ARRIâ??s Alexa cameras were among the first digital cameras widely adopted by cinematographers.

To **RED Digital Cinema** for the pioneering design and evolution of the RED Epic digital cinema cameras with upgradeable full-frame image sensors.

REDâ??s revolutionary design and innovative manufacturing process have helped facilitate the wide adoption of digital image capture in the motion picture industry.

To **Sony** for the development of the F65 CineAlta camera with its pioneering high-resolution imaging sensor, excellent dynamic range, and full 4K output.

Sonyâ??s unique photosite orientation and true RAW recording deliver exceptional image quality.

To **Panavision** and **Sony** for the conception and development of the groundbreaking Genesis digital motion picture camera.

Using a familiar form factor and accessories, the design features of the Genesis allowed it to become one of the first digital cameras to be adopted by cinematographers.

To **Marcos Fajardo** for the creative vision and original implementation of the Arnold Renderer, and to **Christopher Kulla**, **Alan King**, **Thiago Ize** and **Clifford Stein** for their highly optimized geometry engine and novel ray-tracing algorithms which unify the rendering of curves, surfaces, volumetrics and subsurface scattering as developed at Sony Pictures Imageworks and Solid Angle SL.

Arnoldâ??s scalable and memory-efficient single-pass architecture for path tracing, its authorsâ?? publication of the underlying techniques, and its broad industry acceptance were instrumental in leading a widespread adoption of fully ray-traced rendering for motion pictures.

To **Vladimir Koylazov** for the original concept, design and implementation of V-Ray from Chaos Group.

V-Rayâ??s efficient production-ready approach to ray-tracing and global illumination, its support for a wide variety of workflows, and its broad industry acceptance were instrumental in the widespread adoption of fully ray-traced rendering for motion pictures.

To **Luca Fascione**, **J.P. Lewis** and **Iain Matthews** for the design, engineering, and development of the FACETS facial performance capture and solving system at Weta Digital.

FACETS was one of the first reliable systems to demonstrate accurate facial tracking from an actor-mounted camera, combined with rig-based solving, in large-scale productions. This system enables animators to bring the nuance of the original live performances to a new level of fidelity for animated characters.

To **Steven Rosenbluth**, **Joshua Barratt**, **Robert Nolty** and **Archie Te** for the engineering and development of the Concept Overdrive motion control system.

This user-friendly hardware and software system creates and controls complex interactions of real and virtual motion in hard real-time, while safely adapting to the needs of on-set filmmakers.

(Source: oscars.org)

Category

1. Oscar

Tags

1. 89th Oscars Scientific & Technical Awards
2. Film
3. Filmmaking
4. The Academy of Motion Picture Arts and Sciences

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