



**KINO FLO**® Lighting Systems

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News Release

Feb. 20, 2019

## **KINO FLO TURNS THE TABLES ON HD CAMERAS**

HOLLYWOOD— Kino Flo Lighting Systems' president and founder, Frieder Hochheim, will present a series of discussions covering the latest advances in LED lighting technology for cinema production, with special focus on gamut control and new camera lookup tables for LED's.

Directors of photography and students of cinematography, gaffers and production lighting technicians are invited to join with Kino Flo, [John Barry/Panavision](#) and [RPS Lighting](#) for a series of workshops on LED colorimetry for HD image capture.

Sydney: The March 20 workshop will be held at the Terrace Function Room, located within the Lane Cove Community Hub at 1 Pottery Lane, Lane Cove/Lower Ground Floor.

Melbourne: The March 23 workshop will be held at the Curzon Event Room, located within the Mercure North Hotel at the Corner of Flemington Road and Harker Street.

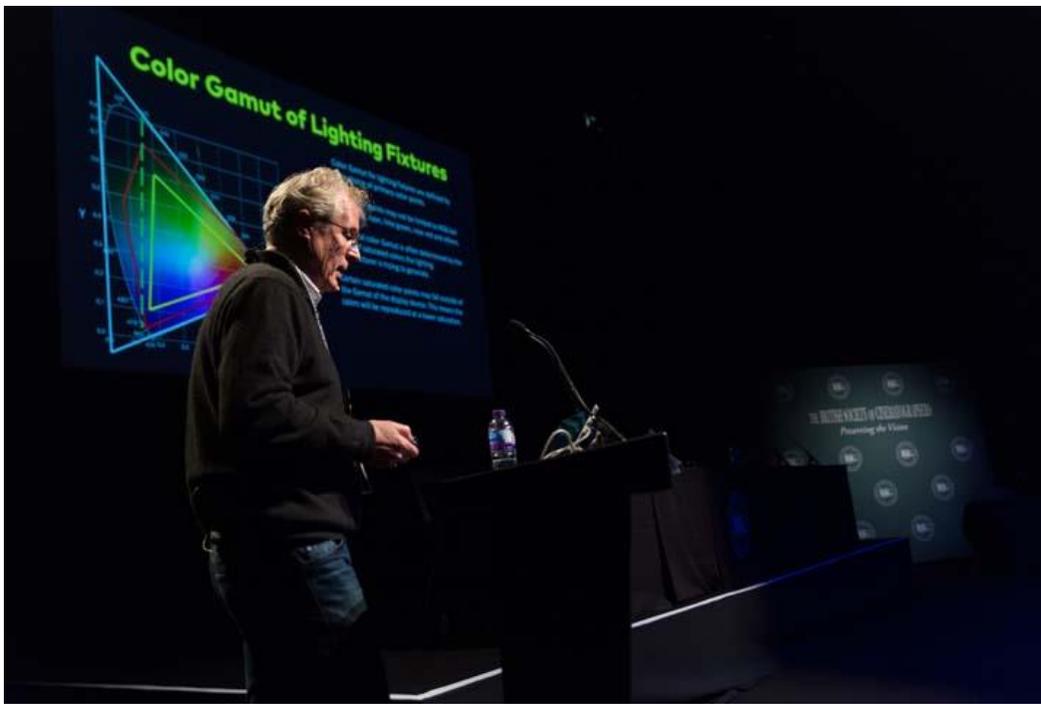
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In Sydney and Melbourne, the first Color Science presentation will be held from 1:00 pm to 4:00 pm. The second two-hour session will follow around 5:00 pm.

At both venues, snacks and beverages will be served during the afternoon sessions, a buffet meal and beverages will be available during a meet & greet gathering after the evening seminars.

“The color science of LED lighting is to cinematographers what natural pigments were to the old world art masters like Rembrandt and Vermeer,” according to Hochheim. “With a new camera Lookup Table feature and advanced gama controls, cinematographers can mix their own LED ‘dye, color and shading’ to control the look of the final image.”



[BSC Show, Color Science Seminar with Frieder Hochheim, Kino Flo president.](#)

## **LED Colorimetry for Cinema**

The Color Science presentation covers the following topics:

- A discussion of spectral measurement indexes, both old and new, and how they relate to the reproduction of true white light for image capture. This subject includes a comparative report on the Color Rendering Index (CRI), the Television Lighting Consistency Index (TLCI), IES TM-30-15, and the Spectral Similarity Index (SSI).
- Kino Flo's development of a bias spectrometer for measuring the spectral response of lighting sources and camera light sensors as a basis for LED design and manufacturing.
- Understanding white light and the color gamut. Some of the key areas of discussion include the importance of the Plankian Locus, a section covering Response Curves, such as Photopic (or Eye) curves and HD camera curves.
- An in-depth meditation on "Understanding Color Gamut".
- Differences in the white light color spectrum as recorded by HD technology.
- The challenge(s) of matching white light and RGB color produced by luminaires from different lighting manufacturers.

## **Camera Lookup Tables for LEDs**

With the new [LUT](#) and Gamut control features, Kino Flo takes another step in pioneering a new generation of broad spectrum LED softlights and pushing the color space to new artistic levels. The presentations will demonstrate the value of

color science when used with the following four cinema cameras:

◆ Arri Alexa ◆ Panavision DXL ◆ Sony Venice ◆ Panasonic Varicam

### **Firmware and Fixture Design**

Hochheim the Kino Flo crew will lead a hands-on demonstration of new developments in LED software offerings, including the application of X-Y values, RDM operation, Gamut control, lighting special effects and more.

Attendees will also have an opportunity to work with Kino Flo's most recent collection of LED FreeStyle Panels, [FreeStyle Tube Systems](#), Celeb, Image, Diva-Lite fixtures and systems during this segment. Kino Flo will also debut during the Sydney event a new LED fixture planned for release later in 2019.

### **Lighting Faces and Places**



Since developing a color science department for its True Match® tubes in the 1980's, Kino Flo has been at the forefront of LED design and manufacturing, creating a color correct, color stable line of tungsten and daylight LED emitters. The company has maintained color quality for more than three decades of fluorescent and LED design, across all product models. From film to digital cinema cameras, to other color critical industries such as smart phone calibration

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and art restoration studios, Kino Flo is recognized for unrivaled color management.

Gaffers and set lighting technicians enjoy a growing collection of premium softlight “brushes”, like the new [FreeStyle LED Tubes](#), to paint spaces and faces with white light, color and effects. Kino Flo has been expanding its wireless DMX production lighting, moving beyond its legacy fixtures with new FreeStyle LED portable systems, adding new designs for the Celeb LED’s, debuting a value line of Image LED studio fixtures, and expanding options for video lighting with new Diva-Lite LED’s.

**A special thanks** to everyone at John Barry/Panavision, RPS Lighting and to our friends at the Australian Cinematographers Society—Ron Johanson, ACS President, and David Lewis, ACS—for their assistance in helping Kino Flo bring the Color Science workshops to Australia!

For questions and more information on the Color Science Workshops, contact:

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