UNIVERSAL DISPLAY CORPORATION

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Universal Display Corporation to Showcase Organic Vapor Jet Printing and Phosphorescent OLED Innovations at SID Display Week 2019

EWING, N.J.--(BUSINESS WIRE)-- Universal Display Corporation (Nasdaq: OLED), enabling energy-efficient displays and lighting with its UniversalPHOLED® technology and materials, today announced that the Company will exhibit and present at the Society for Information Display (SID) Display Week 2019 International Symposium, Seminar and Exhibition being held May 12-16 in San Jose, California.

At Booth #940 in the San Jose convention center, Universal Display will showcase an OVJP (Organic Vapor Jet Printing) fabricated PHOLED (phosphorescent OLED) device. Demonstrated for the first time, this PHOLED device was printed using the Company's recently installed pilot line system. This early green PHOLED printed test coupon has a lifetime of over 50,000 hours (LT95) at 1,000 nits. UDC will also exhibit its high-performing, energy-efficient commercial and developmental red, yellow, green, and blue phosphorescent material systems in its eco-friendly PHOLED Garden.

During an invited paper titled, "Narrow Spectrum Deep Red Emitters for OLED Lighting and Display," Dr. Eric Margulies will detail some breakthrough PHOLED performance data towards automotive lighting applications, including:

- Novel narrow emission Deep Red and Amber for automotive lighting:
  - Deep Red:
    - 1931 CIE: (0.70,0.30), with a breakthrough narrow line shape of 43 nm FWHM
    - EQE of 25% and LT95 55,000 hours at L0=1,000 nits
  - Amber:
    - 1931 CIE: (0.58,0.42), with a breakthrough narrow line shape of 36 nm FWHM
    - EQE of 28% and LT95 200,000 hours at L0=1,000 nits
- Moving the bar on the efficiency-lifetime design space of Light Green for automotive applications:
  - 1931 CIE: (0.42,0.56), with exciting advances in EQE with end use brightness and lifetime
  - EQE of 25% and LT95 300,000 hours at L0=1,000 nits

"At SID, we are pleased to be exhibiting some of our recent advancements in our proprietary organic vapor jet printing system and phosphorescent OLED technology," said Steven V. Abramson, President and Chief Executive Officer of Universal Display. "With our deep and broad experience and know-how of more than two decades of pioneering research, we are continually innovating, inventing and introducing new PHOLED emissive systems and technologies. Additionally, while early in the commercialization path, we believe that OVJP will revolutionize the manufacturing of large area RGB side-by-side OLED TV panels. Visit our booth to learn more about our expanding portfolio of leading-edge OLED solutions."

This year SID's Symposium will include a variety of technical and business events, including:

- SID/DSCC Business Conference, where Dr. Mike Hack will participate in the Keynote Session on Monday, May 13th at 10:15am PT.
- Session 12: OLED Devices II (OLEDs), where Dr. Nicholas Thompson of Universal Display will be the Session

Chair on Tuesday, May 14th at 2:00pm PT.

- Session 19: OLED Physics and Mechanisms (OLEDs), where Dr. Nicholas Thompson of Universal Display will be the Session Co-Chair on Tuesday, May 14th at 3:40pm PT.
- Session 37: Oxide TFTs II (Active-Matrix Devices), where Dr. Mike Hack of Universal Display will be the Session Co-Chair on Wednesday, May 15th at 10:40am PT.
- Session 65: Advanced Materials for Lighting (Lighting); In an invited paper titled, “Narrow Spectrum Deep Red Emitters for OLED Lighting and Display,” Dr. Eric Margulies of Universal Display Corporation will discuss high luminous efficacy deep red phosphorescent emitters for automotive lighting applications on Thursday, May 16th at 1:30pm PT. Following his presentation, Dr. Margulies will be at the Author Interview Session, where he will showcase an advanced phosphorescent OLED red emitter.
- Session 72: Advanced Solid-State Lighting Systems (Lighting), where Dr. Eric Margulies of Universal Display Corporation will be the Session Chair on Thursday, May 16th at 3:10pm PT

About Universal Display Corporation

Universal Display Corporation (Nasdaq: OLED) is a leader in the research, development and commercialization of organic light emitting diode (OLED) technologies and materials for use in display and solid-state lighting applications. Founded in 1994, the Company currently owns, exclusively licenses or has the sole right to sublicense more than 5,000 patents issued and pending worldwide. Universal Display licenses its proprietary technologies, including its breakthrough high-efficiency UniversalPHOLED® phosphorescent OLED technology that can enable the development of low power and eco-friendly displays and solid-state lighting. The Company also develops and offers high-quality, state-of-the-art UniversalPHOLED materials that are recognized as key ingredients in the fabrication of OLEDs with peak performance. In addition, Universal Display delivers innovative and customized solutions to its clients and partners through technology transfer, collaborative technology development and on-site training.

Headquartered in Ewing, New Jersey, with international offices in China, Hong Kong, Ireland, Japan, South Korea and Taiwan, and wholly-owned subsidiary Adesis, Inc. based in New Castle, Delaware, Universal Display works and partners with a network of world-class organizations. To learn more about Universal Display Corporation, please visit https://oled.com/.

All statements in this document that are not historical, such as those relating to Universal Display Corporation’s technologies and potential applications of those technologies, the Company’s expected results and future declaration of dividends, as well as the growth of the OLED market and the Company’s opportunities in that market, are forward-looking financial statements within the meaning of the Private Securities Litigation Reform Act of 1995. You are cautioned not to place undue reliance on any forward-looking statements in this document, as they reflect Universal Display Corporation’s current views with respect to future events and are subject to risks and uncertainties that could cause actual results to differ materially from those contemplated. These risks and uncertainties are discussed in greater detail in Universal Display Corporation’s periodic reports on Form 10-K and Form 10-Q filed with the Securities and Exchange Commission, including, in particular, the section entitled “Risk Factors” in Universal Display Corporation’s Annual Report on Form 10-K for the year ended December 31, 2018. Universal Display Corporation disclaims any obligation to update any forward-looking statement contained in this document.

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