





## EPIC Online Technology Meeting

on UV-LED-based Technologies and Applications

by Peter E. Gordon - Bolb Inc.

## Epitaxy Growth in Livermore, CA – Company Leadership





#### Jerry JP Zhang, Ph.D., Co-founder, Chairman and CTO

DARPA Outstanding Performance Award winner 2003 Former Epi Manager at Sensor Electronic Technologies (SETi). Author of over 100 publications and more than 50 patents. Post doctoral fellows at Univ. South Carolina (Asif Khan), Ph.D. Institute of Semiconductors, CAS.

#### Bob Y Gao, Ph.D., Co-founder, EVP

Former VP of epitaxy at QD Jason Co., and senior scientist at Sensor Electronic Technologies (SETi) and Intrinsic Co. Ph.D. Univ. of Sout Carolina

#### Marvin L. Zhou, Ph.D., Co-founder, CEO and BOD Member

Senior Scientist, Lumileds 2002-07 DARPA Outstanding Performance Award winner 2003 EVP, QD Jason Co. 2009-14 Ph.D., Univ. of Illinois at Urbana-Champaign

#### Peter E. Gordon, VP Business Development

Former Managing Partner, LiTeProducts LLC and Germgard Lighting LLC IUVA UV Solutions for Food Security working group ASHRAE TC2.9 UVC Air Treatment working group NIST UVC LED characterization working group MS EE, UC Santa Barbara



## Epitaxy Growth in Livermore, CA – Company Leadership / Advisory Board



#### Mike Krames, Ph.D., IEEE Fellow

Former CTO, Soraa Executive VP, Philips Lumileds Ph.D., Univ. of Illinois at Urbana-Champaign

#### **Frank Harder**

Former VP, Global Sales, Philips Lumileds Former VP, Samsung Strategy and Innovation Center Wharton School of Management, U. Penn MS Sc. EE, Univ. of Duesseldorf, Germany







Sever infectious pathogen transmission pathways



Instill confidence and trust in reoccupying shared space



Proven "Green" Alternative

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## Significant hidden potential for PROFESSIONAL use





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## UVC LED serving these PROFESSIONAL applications today

**ØBOLB** 

POU and POE Water Treatment Air Treatment in occupied space

Surface Disinfection via Fixture

Surface Disinfection via mobile chassis

Surface Disinfection portable emitters

**Auto Cabin Disinfection** 

Horticulture and Food Security

Defense (NATO countries)

Bio / Gas Sensors

**UV** Curing

In 2021 accessible market will require > 50M high power single emitter devices

## High Light extraction efficiency: The game changer in solid-state UVC technology



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## Technology Advancements





Typical single emitter 100 mW @ 250mA 6V 6060 SMD L70 3500 hours at case temp of 380 C





### Your contact person

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# Thank you for your attention!

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