

# OSA Incubator Low Level Light Therapy: the Path Forward

20-22 August

OSA Headquarters • 2010 Massachusetts Ave. NW • Washington, DC, USA

HOSTED BY:

Juanita Anders, *Uniformed Services University of the Health Sciences*; Praveen Arany, *National Institute of Health*; James Carroll, *THOR Photomedicine Ltd*; Michael R Hamblin, *Harvard Medical School*; Donald E. Patthoff, *DDS*

## AGENDA

### Wednesday, 20 August 2014

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**18:00**      **Welcome Dinner**  
Ezme, 2016 P Street, NW

### Thursday, 21 August 2014

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**8:00**      **Breakfast**  
OSA Headquarters, 2010 Massachusetts Ave., NW

**8:30**      **Welcome**  
Elizabeth Rogan, *Chief Executive Officer, OSA, USA*

**8:45**      **Overview of the Goals of the Incubator**  
Juanita Anders, *Uniformed Services University of the Health Sciences, USA*  
Michael R Hamblin, *Harvard Medical School, USA*

**9:00**      **History of Low Level Light Therapy**  
Howard Schlossberg, *Air Force Office of Scientific Research (rtd), USA*

### BASIC MECHANISMS SESSION

**9:20**      **Biological Chromophores, Action Spectra vs Absorption Spectra, Wavelength & Target Tissue**  
Juanita Anders, *Uniformed Services University of the Health Sciences, USA*

**9:50**      **Activation of Growth Factor Complex Leads to Therapeutic Benefits of Laser Photobiomodulation on Stem Cells**  
Praveen Arany, *National Institute of Health, USA*

## **Thursday, 21 August 2014, continued**

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**10:20**            **Mitochondria, Reactive Oxygen Species & Activation of Transcription Factors**  
Mike Hamblin, *Harvard Medical School, USA*

**10:50**            **Group Discussion**

**11:20**            **Break**

### **INTRODUCTION TO SOCIAL & ETHICAL ISSUES SESSION**

**11:50**            **Panel: The Contrasting Impacts of Professional Ethics and Market-Based Thinking on the Commitments of Professional Health Organizations**  
Moderator: Don Patthoff, *DDS, USA*  
Speaker: David Ozar, *Loyola University Chicago, USA*  
Panel members: Gail Siminovsky, *Academy of Laser Dentistry, USA*  
Scott Benjamin, *Advanced Integration & Mentoring, USA*

**12:50**            **Lunch, provided**

### **PRE-CLINICAL SESSION**

**13:50**            **Transcranial LLLT for Traumatic Brain Injury & Beyond**  
Mike Hamblin, *Harvard Medical School, USA*

**14:20**            **Low Level Light Therapy for Autoimmune Demyelination: Observations & Considerations**  
Jeri-Anne Lyons, *University of Wisconsin-Milwaukee, USA*

**14:50**            **Exploring Photobiomodulation Dose Regimens Via Optimization of Preclinical In Vitro and Animal Models**  
Praveen Arany, *National Institute of Health, USA*

**15:20**            **Group Discussion**

**15:50**            **Break**

## Thursday, 21 August 2014, continued

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### DEVICES/DOSIMETRY SESSION

- 16:10**      **Devices, Measurement Problems and Reliability**  
James Carroll, *THOR Photomedicine Ltd, USA*
- 16:40**      **Dosimetry: Separating Fact & Fiction: The Scientific Basis for Current Wavelength & Dose Recommendations**  
Juanita Anders, *Uniformed Services University of the Health Sciences, USA*
- 17:10**      **Laser Penetration & the Thrills and Spills of an LLLT/PBM Startup**  
Clark Tedford, *LumiThera, Inc., USA*
- 17:40**      **Group Discussion**
- 18:10**      **Dinner**  
Sette Osteria, 1666 Connecticut Avenue, NW

## Friday, 22 August 2014

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- 8:00**      **Breakfast**  
OSA Headquarters, 2010 Massachusetts Ave., NW

### CLINICAL EXPERIENCES/APPLICATION SESSION

- 8:30**      **Clinical Use of Low Level Light Therapy: A Focus on Pain (*via weblink*)**  
Roberta Chow, *Australian Medical Laser Association, Australia*
- 9:00**      **Research with Transcranial LED to Improve Cognition in Chronic, TBI**  
Margaret Naeser, *VA Boston Healthcare System, USA*
- 9:30**      **Why is LLLT/PBM Not a Routine Treatment for Oral Mucositis in the USA?**  
Nathaniel Treister, *Brigham and Women's Hospital, USA*
- 9:45**      **How We Adopted LLLT/PBM for Cancer Therapy Side-effects**  
Annette Quinn, *University of Pittsburgh, USA*
- 10:00**      **Group Discussion**
- 10:30**      **Break**

**SOCIAL & ETHICAL ACTIONS SESSION**

**11:05            Towards Developing a Consensus on Professional Commitments for a New Collaborative Initiative in Health Care**

Moderator: Don Patthoff, *DDS, USA*

Speaker: David Ozar, *Loyola University Chicago, USA*

Panel members: Clark Tedford, *LumiThera, Inc., USA*

Allan Gardiner, *PhotoMed Technologies, Inc., USA*

**11:30            Group Discussion**

**12:00            Lunch, provided**

**13:00            Group Discussion**

Moderated by the Hosts

Where do we want to go?

What do we need to get us there?

**15:30            Adjourn**